

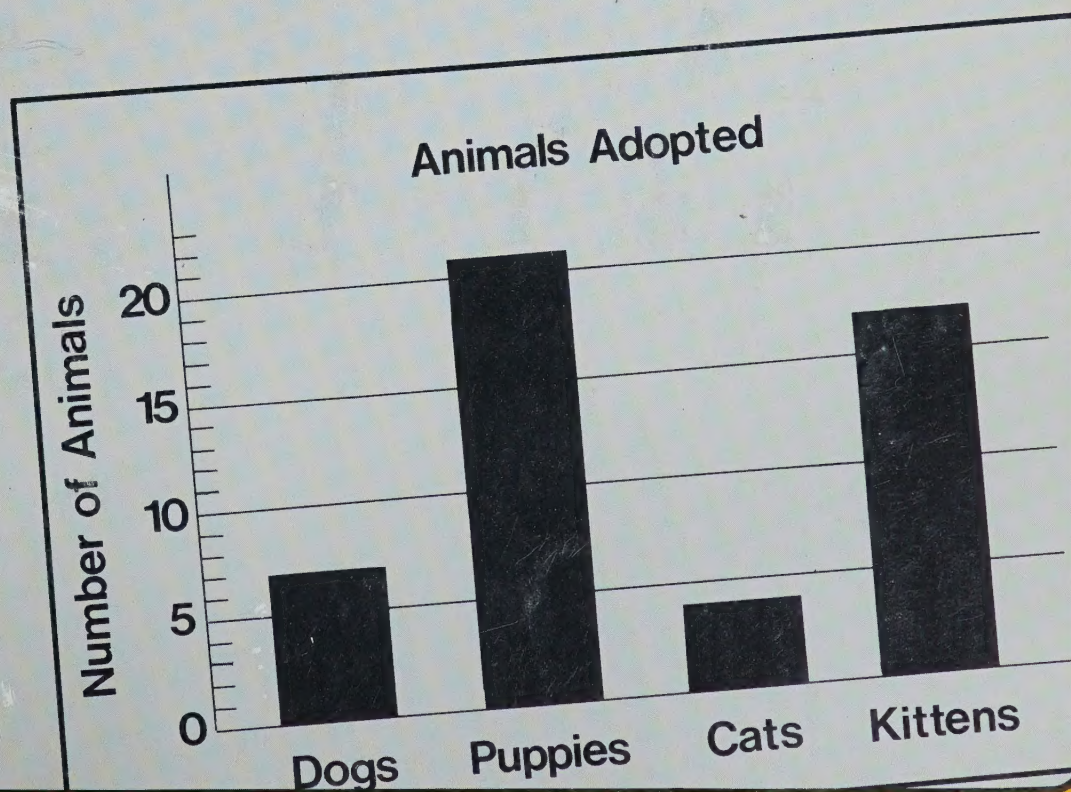
# starting points in mathematics

# 5

## tests with answer keys

For this bar graph,

9. which animal was the most



QA  
135.5  
S79  
1982  
gr.5  
tests

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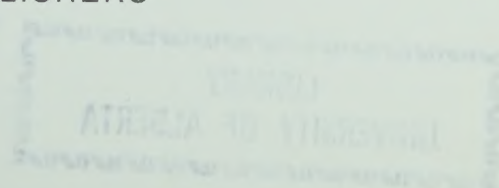
Tests with Answer Keys for

**starting points  
in mathematics**

Level 5

GINN AND COMPANY

EDUCATIONAL PUBLISHERS



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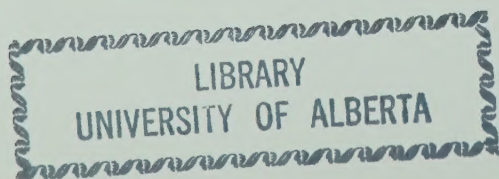
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## To the Teacher

This book is designed for use with the *Starting Points in Mathematics 5 Revised*.

### Pretest

This test may be given at the beginning of the school year to identify topics presented in the text that do not need to be studied by some students.

For each student, examine the error pattern for each topic.

Addition/Subtraction Exercises 10 to 15, 25 to 30  
Students who receive less than perfect scores should be taught the addition and subtraction unit, Unit 2. Students who receive perfect scores should work on appropriate enrichment and problem-solving tasks with regular review of addition and subtraction while the others work in Unit 2.

Multiplication Exercises 16 to 18  
Students who receive less than perfect scores should be taught the multiplication unit, Unit 3. Students who receive perfect scores should work on appropriate enrichment and problem-solving tasks with regular review of multiplication while others work in Unit 3.

Division Exercises 19 to 21  
Students who receive less than perfect scores should be taught the division units, Unit 5 and Unit 10. Students who receive perfect scores should be given the Unit 5 *Checking Up*. If students perform satisfactorily, they should proceed to the Unit 10 *Checking Up*. If successful here, allow them to work on appropriate enrichment and problem-solving tasks with regular review of division while the others work in Unit 5 and Unit 10.

Numeration/Decimals/Fractions Exercises 1 to 9,  
22 to 24, 31 to 33

Measurement Exercises 34 to 45

Geometry Exercises 46 to 60

Word Problems Exercises 61 to 66

All students should be taught the related units. Students who receive perfect scores on any topic may act as assistants and be allowed to spend more time on related enrichment and problem-solving activities.

### Unit Tests

There are two tests presented for each unit in the student text. *Test A* is parallel in structure to the *Checking Up* in the student text. *Test B* is a multiple-choice test.

Upon completion of a unit, you have the option of using one of *Checking Up*, *Test A*, *Test B*, or your own test as a final review, and another as a test.

For each student, examine the error pattern. Compare it with the page reference given in parentheses on the answer key. When a student exhibits two or more errors for material related to any particular page, he or she should be provided with the corresponding workbook section or reteaching master.

### Year-End Test

This test may be given at the end of the school year to evaluate student performance on mathematics skills presented during the year.

For each student, examine the error pattern for each topic.

Addition Exercises 10, 14, 18,  
20, 23, 28, 30, 32,  
34

Subtraction Exercises 11, 15, 19,  
21, 25, 29, 31, 33,  
35

Multiplication Exercises 12, 16, 24,  
27, 36, 38

Division Exercises 13, 17, 22,  
26, 37, 39

Numeration/Decimals/Fractions Exercises 1 to 9,  
40 to 42

Measurement Exercises 43 to 54

Geometry Exercises 55 to 69

Word Problems Exercises 70 to 75

If a student has more than two errors for any topic, he or she may not have mastered it yet. Results of the year-end test should be kept in the student's file for the grade 6 teacher.

### Answer Key

The tests are designed for students to show their answers on the right of the test page. This is to facilitate marking using the answer key. For exercises involving calculations, have the students do their work at the end of the test or on another page. Instruct students to transfer their final answers to the spaces at the right.

To mark a test, place the student's test beside the appropriate answer key so that the student's responses align with the answers shown on the key. Compare each student response with the answer. Assign a mark to each correct response. Use the conversion chart to convert the student's total marks out of the total possible marks to a percent.

## CONVERSION CHART

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**MARK**

[illegible]

# PRETEST

1. d
2. b
3. c
4. b
5. d
6. b
7. c
8. a
9. c
10. a
11. b
12. b
13. c
14. a
15. d
16. c
17. d
18. d
19. b
20. b
21. b
22. a
23. b
24. d
25. c
26. b
27. a
28. d
29. a
30. b
31. d

# PRETEST

32. a
33. d
34. b
35. a
36. d
37. c
38. d
39. d
40. b
41. c
42. c
43. d
44. c
45. c
46. b
47. a
48. b
49. a
50. d
51. d
52. c
53. b
54. b
55. b
56. a
57. c
58. b
59. d
60. d
61. d
62. a
63. d
64. a
65. c
66. b

# UNIT 1 TEST A

1. 3 ten (4)  
thousands
2. 3 hundred (4)  
thousands
3. 582 (4)
4. 924 715 (4)
5. 400 000+ (4)  
60 000+  
2 000+  
700
6. 500 000+ (4)  
20 000+  
400+9
7. 69 281 (4)
8. 781 569 (4)
9. 729 065 (4)
10. 506 409 (4)
11. 830 018 (4)
12. 462 100 (4)
13. 472 (12)
14. 1949 (12)
15. < (8)
16. > (8)
17. 69 874 (8)  
469 487  
469 784
18. 436 415 (8)  
435 451  
435 154
19. 471 000 (10)
20. 890 000 (10)
21. 146 900 (10)
22. 300 000 (10)

# UNIT 1 TEST B

1. b (4)
2. d (4)
3. a (4)
4. c (4)
5. d (8)
6. c (8)
7. c (10)
8. c (4)
9. d (6)
10. d (8)
11. b (10)
12. b (4)
13. d (6)
14. c (8)
15. b (10)
16. a (8)
17. b (6)
18. b (4)
19. a (6)
20. a (12)
21. a (8)

## UNIT 2 TEST A

1. 5776 (17)
2. 8616 (18)
3. 69381 (20)
4. 5337 (18)
5. 53270 (20)
6. \$91.28 (22)
7. \$211.00 (22)
8. 67522 (20)
9. 27573 (20)
10. \$49294 (22)
11. 53043 (20)
12. 2145 (28)
13. 2143 (29)
14. 14652 (29)
15. 35428 (29)
16. 3474 (32)
17. \$47.23 (34)
18. \$663.66 (34)
19. 4792 (32)
20. 4816 (29)
21. 587 (32)
22. \$571.33 (34)
23. 5556 (29)
24. 27257 (20)
25. \$78.78 (34)

## UNIT 2 TEST B

1. c (17)
2. d (20)
3. b (22)
4. d (20)
5. d (28)
6. c (29)
7. d (34)
8. d (32)
9. a (17)
10. a (29)
11. c (20)
12. c (28)
13. a (17)
14. a (28)
15. b (22)
16. c (20)
17. b (34)
18. c (32)
19. a (18)
20. b (22)
21. b (20)
22. a (34)
23. c (29)
24. a (32)
25. a (32)
26. d (32)
27. b (20)

## UNIT 3 TEST A

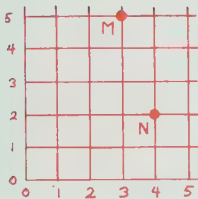
1. 315 (44)
2. 1211 (46)
3. 32648 (46)
4. 283410 (46)
5. 1660 (50)
6. 47950 (50)
7. 194100 (50)
8. 225 (52)
9. 3162 (52)
10. 2548 (52)
11. 34265 (54)
12. 504608 (54)
13. 28288 (56)
14. 408558 (56)
15. \$39673 (59)
16. \$2765.75 (59)
17. 12000 (60)
18. 720000 (60)
19. 360000 (60)
20. 2800 (50)
21. \$33856.10 (59)
22. 2360 (46)
23. 4187 (52)
24. 30240 (54)
25. \$1829.52 (59)

## UNIT 3 TEST B

1. b (46)
2. c (50)
3. d (52)
4. b (56)
5. a (46)
6. d (50)
7. a (54)
8. d (56)
9. d (46)
10. a (50)
11. b (54)
12. a (56)
13. d (60)
14. c (60)
15. a (60)
16. c (54)
17. b (46)
18. c (54)

### UNIT 4 TEST A

1. 9 (68)
2. walking (68)
3. no (68)
4. 27 (68)
5. Sun., Wed. (70)
6. 4h (70)
7. Thurs. (70)
8. Wed., 0.5h (70)
9. puppy (68)
10. cats (68)
11. kitten (68)
12. dogs, 3 (68)
13. (72)
14. (72)



### UNIT 4 TEST B

1. d (68)
2. d (68)
3. b (68)
4. a (70)
5. b (70)
6. c (70)
7. d (68)
8. c (68)
9. b (68)
10. c (72)
11. a (72)
12. b (72)

### UNIT 5 TEST A

1. 4 (80)
2. 6 R 5 (80)
3. 432 (82)
4. 12 (82)
5. 19 (84)
6. 29 R 1 (84)
7. 63 (86)
8. 379 R 1 (86)
9. 638 (88)
10. 529 R 4 (88)
11. \$274 (96)
12. \$6.35 (96)
13. 7 R 3 (80)
14. 213 (82)
15. 23 (84)
16. 16 R 3 (84)
17. 42 (86)
18. 268 R 1 (86)
19. 849 (88)
20. 7997 R 7 (88)
21. \$75 (96)
22. 89 R 1 (96)
23. \$0.46 (86)
24. \$1.55 (93)

### UNIT 5 TEST B

1. b (80)
2. c (80)
3. a (80)
4. d (82)
5. b (84)
6. b (86)
7. b (88)
8. a (96)
9. d (84)
10. d (88)
11. c (82)
12. a (86)
13. d (96)
14. b (82)
15. c (84)
16. c (86)
17. a (88)
18. d (96)
19. c (92)
20. c (86)
21. b (86)
22. d (92)
23. a (92)
24. a (86)

## UNIT 6 TEST A

1. 2.09 (102)
2. 4.247 (106)
3. 15.007 (106)
4. 7 thousandths (106)
5. 7 hundredths (106)
6. 10.2 (108)
7. 0.8 (108)
8. 2.700 (108)
9. 21.890 (108)
10. < (108)
11. = (108)
12. 0.402 (109)  
0.346  
0.341  
0.284
13. 7.069 (109)  
7.6  
8.204  
8.24
14. 4 (112)
15. 8 (112)
16. 3.6 (112)
17. 8.0 (112)
18. 6.1 (116)
19. 6.47 (116)
20. 91.32 (116)
21. 17.497 (116)
22. 4.8 (118)
23. 5.57 (118)
24. 5.675 (118)
25. 34.65 (118)

## UNIT 6 TEST B

1. b (100)
2. c (111)
3. a (102)
4. b (100)
5. c (108)
6. d (109)
7. b (112)
8. c (100)
9. d (111)
10. d (100)
11. d (112)
12. c (108)
13. d (102)
14. a (109)
15. a (100)
16. b (100)
17. d (108)
18. a (112)
19. b (102)
20. a (111)
21. b (109)
22. c (116)
23. a (118)
24. b (118)
25. c (116)
26. a (116)
27. c (118)

## UNIT 7 TEST A

1. 9 cm (126)
2. 42 mm (128)
3. 354 cm (130)
4. 2.4 cm (130)
5. 105 mm (130)
6. 7500 mm (130)
7. 2.67 m (130)
8. 1.825 m (130)
9. 140 mm (134)
10. 76 mm (134)
11. 248 m<sup>2</sup> (140)
12. 1444 cm<sup>2</sup> (140)
13. 10 cm (134)
14. 6 cm<sup>2</sup> (140)
15. 18 cm (134)
16. 20 cm<sup>2</sup> (140)
17. See (142)
18. below (143)
17. a rectangle  
1 cm by 7 cm  
or 2 cm by 6 cm  
or 3 cm by 5 cm  
or 4 cm by 4 cm
18. a rectangle  
1 cm by 24 cm  
or 2 cm by 12 cm  
or 3 cm by 8 cm  
or 4 cm by 6 cm

## UNIT 7 TEST B

1. c (126)
2. d (128)
3. d (132)
4. c (136)
5. d (126)
6. d (128)
7. c (132)
8. b (136)
9. b (126)
10. a (128)
11. b (132)
12. a (136)
13. c (130)
14. b (130)
15. a (130)
16. c (142)
17. b (143)
18. d (143)
19. d (142)
20. a (142)
21. a (143)

# UNIT 8 TEST A

1. 32.2 (150)
2. 11.58 (150)
3. 38.968 (150)
4. 352.5 (150)
5. 23.4 (150)
6. 15.86 (150)
7. 28.152 (150)
8. \$13.86 (150)
9. \$14.32 (150)
10. 238.0 (154)
11. 5292.5 (154)
12. 7340.2 (154)
13. \$137.28 (154)
14. 285 (154)
15. \$544.64 (154)
16. 12.48 (154)
17. 0.435 (158)
18. 86.2 (158)
19. 6.50 (160)
20. 47 (160)
21. 0.12 (161)
22. 1.16 (162)
23. 58.65 (164)
24. 438.84 (164)
25. 0.95 (162)
26. 37.24 (164)
27. 139.59 (164)

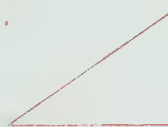
# UNIT 8 TEST B

1. a (148)
2. c (154)
3. b (158)
4. c (161)
5. b (148)
6. a (154)
7. d (148)
8. d (158)
9. d (154)
10. b (158)
11. c (162)
12. a (163)
13. d (152)
14. d (154)
15. c (152)
16. a (152)
17. c (154)
18. a (154)
19. b (160)
20. d (160)
21. b (160)
22. b (164)
23. c (164)
24. a (164)

# UNIT 9 TEST A

1.  $\overleftrightarrow{AC}$ ,  $\overleftrightarrow{FG}$  (172)
2.  $\overline{AB}$ ,  $\overrightarrow{AD}$  (172)
3.  $\angle EBC$  (176)
4.  $\angle ABE$  (176)
5.  $\angle DAB$  or  $\angle DAH$  (176)
6.  $\angle DAB$  or  $\angle DAH$  (174)
7.  $25^\circ$  (176)
8. See below. (178)
9. hexagon (179)
10. quadrilateral (179)
11. isosceles (184)
12. scalene (184)
13. rectangle (186)
14. trapezoid (186)
15. cone (190)
16. rectangular (188)
17. prism
17. See below. (182)
18. See below. (182)
19. 6 (188)
20. 8 (188)

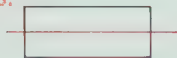
8.



17.



18.



or



# UNIT 9 TEST B

1. c (170)
2. a (172)
3. a (174)
4. b (176)
5. d (170)
6. b (170)
7. c (172)
8. a (172)
9. d (176)
10. c (174)
11. b (176)
12. a (174)
13. b (176)
14. a (176)
15. a (176)
16. b (179)
17. d (184)
18. c (186)
19. d (182)
20. d (188)
21. d (188)
22. c (179)
23. b (184)
24. d (186)
25. c (188)
26. d (182)
27. c (188)
28. b (188)
29. c (186)
30. a (179)
31. b (182)
32. a (184)
33. a (188)

## UNIT 10 TEST A

1. 49 (194)
2. 534 (194)
3. 38 R5 (194)
4. 4396 R1 (194)
5. 106 (196)
6. 508 R3 (196)
7. 36 (199)
8. 67 (199)
9. 736 R25 (200)
10. 2097 R64 (200)
11. 24 (202)
12. 58 R19 (202)
13. 98 (204)
14. 672 R21 (204)
15. 6929 (206)
16. 1308 R3 (196)
17. 372 R51 (202)
18. \$85.85 (206)
19. \$5.14 (194)
20. \$75 (206)

## UNIT 10 TEST B

1. d (194)
2. b (196)
3. c (199)
4. d (200)
5. c (202)
6. c (200)
7. a (194)
8. d (199)
9. a (194)
10. b (199)
11. a (200)
12. d (196)
13. d (202)
14. b (196)
15. a (202)
16. a (202)
17. c (196)
18. b (200)

## UNIT 11 TEST A

1.  $26 \text{ cm}^3$  (217)
2.  $72 \text{ cm}^3$  (218)
3. 3 (222)
4. 5670 (222)
5. 1270 (226)
6. 8.75 (226)
7. 538 (224)
8. 1270 (224)
9. 10 (228)
10. 320 (228)
11. 4:53:38 (230)
12. 16:53:38 (230)
13. 14:28:20 (230)
14. 06 13 (232)
15. Oct. 9 (232)

## UNIT 11 TEST B

1. c (216)
2. c (216)
3. d (216)
4. d (222)
5. c (226)
6. b (222)
7. b (226)
8. a (222)
9. b (226)
10. a (222)
11. c (226)
12. c (222)
13. a (226)
14. b (226)
15. d (222)
16. d (224)
17. a (220)
18. d (224)
19. d (220)
20. a (224)
21. a (220)
22. c (228)
23. a (228)
24. b (228)
25. d (230)
26. d (230)
27. b (232)
28. c (230)
29. d (230)
30. c (232)
31. a (230)
32. b (230)
33. b (232)

## UNIT 12 TEST A

1. 4.3 (238)
2. 2.6 (240)
3. 2.8 (240)
4. 6.47 (242)
5. 8.35 (242)
6. 5.692 (242)
7. 6.084 (242)
8. 0.73 (245)
9. 0.39 (245)
10. 0.75 (246)
11. 0.45 (246)
12. 2.735 (246)
13. \$8.35 (242)
14. \$0.72 (245)
15. \$9.60 (246)
16. \$6.72 (242)
17. Brand B (253)
18. 3.8 m (240)
19. 7.75 cm (246)
20. 6.49 kg (242)
21. \$18.59 (242)
22. 2.57 (250)
23. 0.95 (250)
24. \$1.98 (250)

## UNIT 12 TEST B

1. c (238)
2. b (245)
3. a (246)
4. b (238)
5. c (246)
6. d (250)
7. d (245)
8. a (238)
9. b (245)
10. d (250)
11. a (246)
12. c (250)
13. b (240)
14. c (242)
15. d (242)

## UNIT 13 TEST A

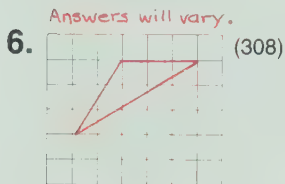
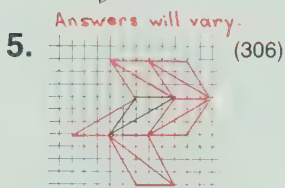
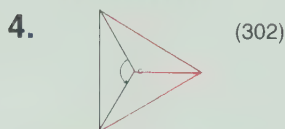
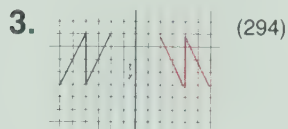
1.  $\frac{1}{3}, \frac{2}{6}$  (260)
2.  $\frac{10}{16}, \frac{15}{24}$  (262)
3.  $\frac{1}{5}, \frac{6}{30}$  (262)
4. 9 (263)
5. 25 (263)
6. < (266)
7. = (266)
8.  $\frac{23}{6}$  (268)
9.  $\frac{29}{5}$  (268)
10.  $3\frac{1}{2}$  (270)
11.  $6\frac{3}{8}$  (270)
12. 0.8 (280)
13. 3.125 (282)
14. 27 (278)
15. 24 (278)
16.  $11\frac{5}{6}$  (272)
17.  $11\frac{4}{8}$  (272)
18. 13 (272)
19.  $1\frac{4}{10}$  (274)
20.  $1\frac{4}{5}$  (274)
21.  $2\frac{7}{12}$  (274)

## UNIT 13 TEST B

1. c (260)
2. d (262)
3. d (263)
4. a (266)
5. c (278)
6. b (260)
7. c (262)
8. d (263)
9. d (266)
10. d (278)
11. a (262)
12. a (266)
13. b (278)
14. a (260)
15. b (263)
16. c (268)
17. c (270)
18. b (280)
19. d (270)
20. c (268)
21. c (280)
22. a (280)
23. b (268)
24. a (270)
25. d (272)
26. a (274)
27. d (272)
28. b (272)
29. b (274)
30. c (274)

# UNIT 14 TEST A

1. none (288)  
(292)  
(296)



# UNIT 14 TEST B

1. b (292)
2. d (288)
3. c (296)
4. c (292)
5. c (288)
6. d (296)
7. a (288)
8. c (296)
9. d (292)
10. d (306)
11. b (308)
12. c (302)
13. b (302)
14. c (308)
15. a (306)
16. c (302)
17. d (306)
18. d (308)

# UNIT 15 TEST A

1. 7:8 (316)
2. 2:3 (316)
3. 5:9 (316)
4. 5:7 (316)
5. 15:3 (316)
6.  $\frac{12}{16} = \frac{15}{20} = \frac{18}{24} = \frac{21}{28}$  (318)
7. 16 (320)
8. 5 (320)
9. 21 (320)
10. 27 (322)
11. 8 (322)
12. 19 (322)
13. 79% (328)
14. 7% (328)
15. 60% (328)
16. 75% (328)
17. 90% (328)
18. \$8 (326)
19. 300 km (320)
20. 280 km (327)

# UNIT 15 TEST B

1. c (216)
2. b (318)
3. a (320)
4. a (322)
5. d (328)
6. d (316)
7. d (324)
8. b (320)
9. d (322)
10. a (328)
11. a (316)
12. c (318)
13. b (328)
14. c (322)
15. a (326)
16. b (324)
17. c (322)
18. c (328)

**YEAR-END TEST**

1. d
2. c
3. d
4. c
5. b
6. d
7. d
8. b
9. a
10. d
11. a
12. d
13. b
14. b
15. c
16. a
17. c
18. c
19. a
20. a
21. c
22. b
23. d
24. d
25. a
26. d
27. c
28. d

**YEAR-END TEST**

29. c
30. b
31. c
32. a
33. d
34. a
35. c
36. d
37. d
38. c
39. d
40. c
41. c
42. d
43. a
44. a
45. d
46. b
47. b
48. d
49. b
50. d
51. c
52. b
53. b
54. c
55. b

**YEAR-END TEST**

56. a
57. c
58. d
59. c
60. c
61. d
62. c
63. c
64. b
65. c
66. a
67. d
68. c
69. b
70. d
71. c
72. b
73. b
74. c
75. a



Choose the correct answer.

1. Which is the standard form for two hundred thousand two hundred two?

(a) 200 1000 200 2

(b) 200 000 200 2

(c) 200 2002

(d) 200 202

2. Which is the standard form for 68 thousands 7 hundreds 5 tens?

(a) 68 000 700 510

(b) 68 750

(c) 68 705

(d) 6875

3. Which is the standard form for  $90\,000 + 2000 + 30 + 4$ ?

(a) 90 2000 304

(b) 92 304

(c) 92 034

(d) 9234

4. Which is a true statement?

(a)  $19\,919 < 19\,119$

(b)  $19\,919 > 19\,119$

(c)  $19\,119 > 19\,191$

(d)  $19\,911 < 19\,191$

5. Which is a true statement?

(a)  $265\,110 < 109\,265$

(b)  $265\,110 > 266\,109$

(c)  $110\,265 < 109\,266$

(d)  $110\,265 > 109\,266$

6. Which list shows the numbers in order from greatest to least?

(a) 

61 661
66 116
61 616
66 166

(b) 

66 166
66 116
61 661
61 616

(c) 

66 166
61 616
66 116
61 661

(d) 

61 616
61 661
66 116
66 166

7. Which is 645 rounded to the nearest ten?

(a) 50

(b) 640

(c) 650

(d) 600

8. Which is 819 rounded to the nearest hundred?

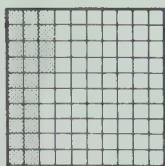
(a) 800

(b) 820

(c) 900

(d) 810

1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_  
6. \_\_\_\_\_  
7. \_\_\_\_\_  
8. \_\_\_\_\_

9. Which is 32 504 rounded to the nearest thousand?  
 (a) 32 000      (b) 32 500      (c) 33 000      (d) 33 504
10. 
$$\begin{array}{r} 429 \\ + 278 \\ \hline \end{array}$$
      (a) 707      (b) 697      (c) 607      (d) 151
11. 
$$\begin{array}{r} 2186 \\ + 1085 \\ \hline \end{array}$$
      (a) 1101      (b) 3271      (c) 3161      (d) 3171
12. 
$$\begin{array}{r} 187 \\ 235 \\ + 461 \\ \hline \end{array}$$
      (a) 422      (b) 883      (c) 696      (d) 773
13. 
$$\begin{array}{r} 742 \\ - 427 \\ \hline \end{array}$$
      (a) 325      (b) 1169      (c) 315      (d) 215
14. 
$$\begin{array}{r} \$2385 \\ - 697 \\ \hline \end{array}$$
      (a) \$1688      (b) \$3082      (c) \$2798      (d) \$1698
15. 
$$\begin{array}{r} 2000 \\ - 721 \\ \hline \end{array}$$
      (a) 2721      (b) 1721      (c) 2279      (d) 1279
16. 
$$\begin{array}{r} 81 \\ \times 26 \\ \hline \end{array}$$
      (a) 648      (b) 107      (c) 2106      (d) 1006
17. 
$$\begin{array}{r} 473 \\ \times 65 \\ \hline \end{array}$$
      (a) 538      (b) 5203      (c) 20 645      (d) 30 745
18.  $4 \times 3 \times 2 \times 7$   
 (a) 16      (b) 24      (c) 42      (d) 168
19.  $7 \overline{)54}$       (a) 7      (b) 7 R5      (c) 8      (d) 8 R2
20.  $5 \overline{)325}$       (a) 6 R25      (b) 65      (c) 61      (d) 77
21.  $6 \overline{)789}$       (a) 111 R3      (b) 131 R3      (c) 131      (d) 111
22. Which decimal is shown?
- 
- (a) 0.24      (b) 1.24      (c) 2.4      (d) 12.4

23. Which is a true statement?

Ⓐ  $0.06 > 0.60$

Ⓑ  $0.06 < 0.60$

Ⓒ  $6.60 < 6.06$

Ⓓ  $6.60 > 6.66$

24. Which list shows the numbers in order from greatest to least?

Ⓐ 

1.89
1.98
8.91
9.81

Ⓑ 

9.81
8.91
1.89
1.98

Ⓒ 

1.98
8.91
1.89
9.81

Ⓓ 

9.81
8.91
1.98
1.89

25. 
$$\begin{array}{r} \$67.43 \\ + 4.98 \\ \hline \end{array}$$

Ⓐ \$62.45

Ⓑ \$61.31

Ⓒ \$72.41

Ⓓ 71.41

26. 
$$\begin{array}{r} 45.3 \\ + 38.2 \\ \hline \end{array}$$

Ⓐ 73.5

Ⓑ 83.5

Ⓒ 7.1

Ⓓ 835

27. 
$$\begin{array}{r} 9.09 \\ + 0.37 \\ \hline \end{array}$$

Ⓐ 9.46

Ⓑ 8.72

Ⓒ 9.32

Ⓓ 9.72

28. 
$$\begin{array}{r} \$50.00 \\ - 42.95 \\ \hline \end{array}$$

Ⓐ \$17.05

Ⓑ \$92.95

Ⓒ \$12.95

Ⓓ \$7.05

29. 
$$\begin{array}{r} 25.1 \\ - 17.9 \\ \hline \end{array}$$

Ⓐ 7.2

Ⓑ 18.2

Ⓒ 43.0

Ⓓ 12.8

30. 
$$\begin{array}{r} 5.09 \\ - 0.32 \\ \hline \end{array}$$

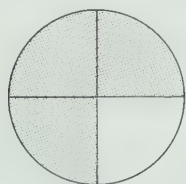
Ⓐ 5.41

Ⓑ 4.77

Ⓒ 5.37

Ⓓ 5.77

31. Which fraction shows how much is shaded?



Ⓐ  $\frac{1}{3}$

Ⓑ  $\frac{3}{1}$

Ⓒ  $\frac{1}{4}$

Ⓓ  $\frac{3}{4}$

32. Which fraction shows how many glasses are empty?



- (a)  $\frac{3}{5}$       (b)  $\frac{2}{5}$       (c)  $\frac{2}{3}$       (d)  $\frac{3}{2}$

33. Which fraction shows how many of the shapes are circles?



- (a)  $\frac{4}{6}$       (b)  $\frac{6}{4}$       (c)  $\frac{6}{10}$       (d)  $\frac{4}{10}$

34. 3 m = \_\_\_\_\_ cm

- (a) 3000      (b) 300      (c) 0.03      (d) 0.003

35. 6000 m = \_\_\_\_\_ km

- (a) 6      (b) 60      (c) 600 000      (d) 6 000 000

36. 420 mL = \_\_\_\_\_ L

- (a) 420 000      (b) 42 000      (c) 4.20      (d) 0.420

37. 2 L 37 mL = \_\_\_\_\_ mL

- (a) 74      (b) 237      (c) 2037      (d) 20 037

38. 983 g = \_\_\_\_\_ kg

- (a) 983 000      (b) 98 300      (c) 9.83      (d) 0.983

39. 3 kg 4 g = \_\_\_\_\_ g

- (a) 12      (b) 34      (c) 3.4      (d) 3004

Which is the best estimate for each measurement?

40. the length of a new eraser

- (a) 6 mm      (b) 6 cm      (c) 16 cm      (d) 6 m

41. the mass of a cat

- (a) 5 g      (b) 50 g      (c) 5 kg      (d) 50 kg

32. \_\_\_\_\_  
33. \_\_\_\_\_  
34. \_\_\_\_\_  
35. \_\_\_\_\_  
36. \_\_\_\_\_  
37. \_\_\_\_\_  
38. \_\_\_\_\_  
39. \_\_\_\_\_  
40. \_\_\_\_\_  
41. \_\_\_\_\_

42. the amount of water a glass will hold

- (a) 2 mL      (b) 20 mL      (c) 200 mL      (d) 2 L

42. \_\_\_\_\_

43. \_\_\_\_\_

44. \_\_\_\_\_

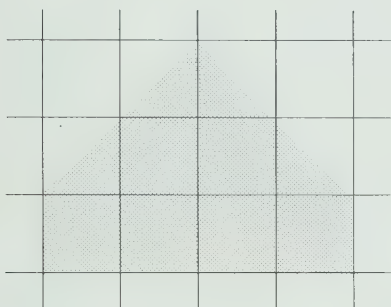
45. \_\_\_\_\_

43. Which is the area of this shape?



- (a) 6 cm      (b) 17 cm      (c)  $6 \text{ cm}^2$       (d)  $7 \text{ cm}^2$

44. Which is the area of this shape?



- (a)  $6 \text{ cm}^2$       (b)  $7 \text{ cm}^2$       (c)  $8 \text{ cm}^2$       (d)  $10 \text{ cm}^2$

45. Which shape has an area of  $6 \text{ cm}^2$ ?



46. Which shows an angle?

46. \_\_\_\_\_

47. \_\_\_\_\_

48. \_\_\_\_\_

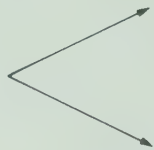
49. \_\_\_\_\_

50. \_\_\_\_\_

(a)



(b)



(c)

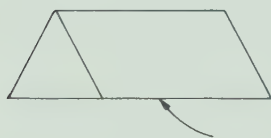


(d)

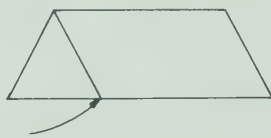


47. Which shows an edge?

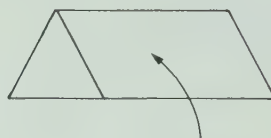
(a)



(b)



(c)



(d)



48. Which shows a hexagon?

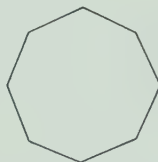
(a)



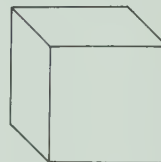
(b)



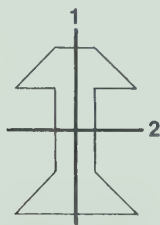
(c)



(d)



49. Which is a line of symmetry?



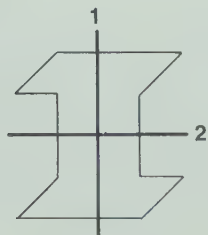
(a) 1

(b) 2

(c) 1 and 2

(d) neither

50. Which is a line of symmetry?



(a) 1

(b) 2

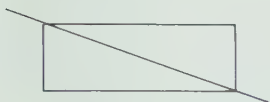
(c) 1 and 2

(d) neither

51. Which shows a line of symmetry?

51. \_\_\_\_\_

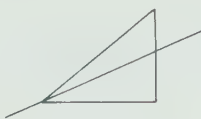
(a)



(b)



(c)



(d)



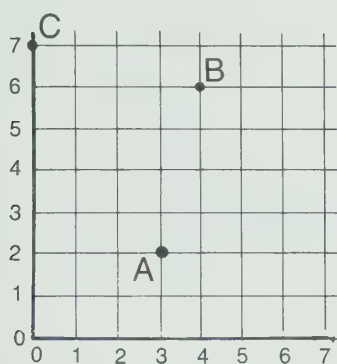
52. \_\_\_\_\_

53. \_\_\_\_\_

54. \_\_\_\_\_

55. \_\_\_\_\_

Use the grid for exercises 52 to 54.



52. Which is the ordered pair that names point A?

(a) 3

(b) 2

(c) (3,2)

(d) (2,3)

53. Which is the ordered pair that names point B?

(a) 4

(b) (4,6)

(c) (6,4)

(d) 6

54. Which is the ordered pair that names point C?

(a) (7,0)

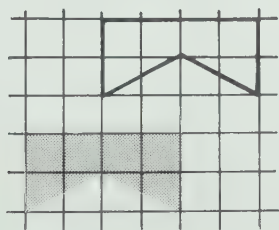
(b) (0,7)

(c) 0

(d) 7

Which do you do to make the gray shape fit the white shape?

55.



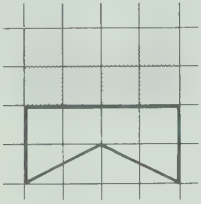
(a) flip

(b) slide

(c) turn

(d) slip

56.



56. \_\_\_\_\_

57. \_\_\_\_\_

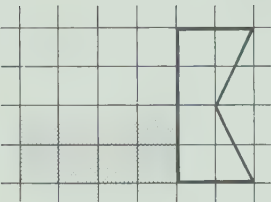
58. \_\_\_\_\_

59. \_\_\_\_\_

60. \_\_\_\_\_

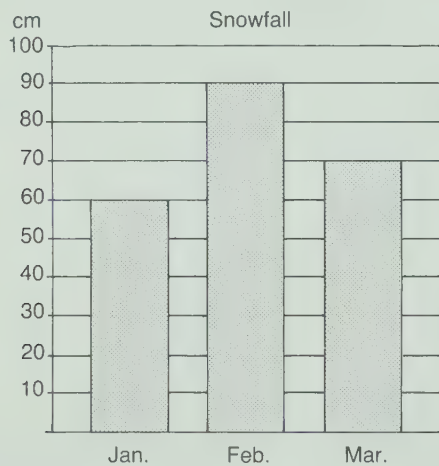
- Ⓐ flip      Ⓑ slide      Ⓒ turn      Ⓓ slip

57.



- Ⓐ flip      Ⓑ slide      Ⓒ turn      Ⓓ slip

Use this graph for exercises 58 to 60.



58. Which month had the most snowfall?

- Ⓐ Jan.      Ⓑ Feb.      Ⓒ Mar.      Ⓓ Jan. and Mar.

59. How much more snow fell in Feb. than in Jan.?

- Ⓐ 3      Ⓑ 3 cm      Ⓒ 30      Ⓓ 30 cm

60. How much snow fell in all three months?

- Ⓐ 7 cm      Ⓑ 22 cm      Ⓒ 70 cm      Ⓓ 220 cm

61. At the fairgrounds there are 58 sheep, 27 cows, and 132 pigs for the animal judging. How many animals are there in all?  
(a) 85      (b) 159      (c) 107      (d) 217
62. The model shop purchased 1138 model cars. It sold 794 model cars. How many are left in stock?  
(a) 344      (b) 444      (c) 1822      (d) 1932
63. Each school bus can carry 42 passengers. How many passengers can 7 buses carry?  
(a) 6      (b) 35      (c) 49      (d) 294
64. 136 people entered the relay race. They were grouped into teams of 4. How many teams were there?  
(a) 34      (b) 132      (c) 140      (d) 544
65. Trixie paid for a \$7.89 purchase with a \$20 bill. How much change should she have received?  
(a) \$23.21      (b) \$17.89      (c) \$12.11      (d) \$27.89
66. Tickets cost \$25 each. 86 tickets were sold. How much change was collected?  
(a) \$111      (b) \$2150      (c) \$61      (d) \$3 R11

Tell what the 3 means in each numeral.

1. 239 640

2. 349 081

1. \_\_\_\_\_

2. \_\_\_\_\_

Complete.

3. 582 000 = \_\_\_\_\_ thousand

3. \_\_\_\_\_

4. 924 715 = \_\_\_\_\_ thousand \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

Write in expanded form.

5. 462 700

6. 520 409

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Write in standard form.

7. 69 thousand 281

8. 718 thousand 569

6. \_\_\_\_\_

\_\_\_\_\_

9. seven hundred twenty-nine thousand sixty-five

\_\_\_\_\_

10.  $500\,000 + 6000 + 400 + 9$

7. \_\_\_\_\_

8. \_\_\_\_\_

11.  $800\,000 + 30\,000 + 10 + 8$

9. \_\_\_\_\_

12. 4 hundred thousands 6 ten thousands 2 thousands 1 hundred

10. \_\_\_\_\_

11. \_\_\_\_\_

13. CDLXXII

14. MCMXLIX

12. \_\_\_\_\_

13. \_\_\_\_\_

Use  $>$ ,  $<$ , or  $=$  to make a true statement.

15.  $821\,429 \bigcirc 821\,492$

16.  $786\,529 \bigcirc 768\,529$

14. \_\_\_\_\_

15. \_\_\_\_\_

List from  
least to greatest.

17. 469 784, 69 874,  
469 487

List from  
greatest to least.

18. 435 451, 436 415,  
435 154

16. \_\_\_\_\_

17. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

18. \_\_\_\_\_

Round to the

19. nearest thousand.  
471 429

20. nearest ten thousand.  
894 569

\_\_\_\_\_

\_\_\_\_\_

21. nearest hundred.  
146 884

22. nearest hundred thousand.  
346 741

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

Choose the correct answer.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

1. Which does the 5 mean in 356 849?

Ⓐ 5 hundred thousands

Ⓑ 5 ten thousands

Ⓒ 5 thousands

Ⓓ 5 hundreds

2. Which way is 629 418 read?

Ⓐ 600 thousand 418

Ⓑ 629 million 418

Ⓒ 418 thousand 629

Ⓓ 629 thousand 418

3. Which is the expanded form for 206 809?

Ⓐ  $200\ 000 + 6000 + 800 + 9$

Ⓑ  $200\ 000 + 6000 + 80 + 9$

Ⓒ  $200\ 000 + 60\ 000 + 800 + 9$

Ⓓ  $20\ 000 + 6000 + 800 + 9$

4. Which is the standard form for 690 thousand 24?

Ⓐ 69 024

Ⓑ 690 240

Ⓒ 690 024

Ⓓ 24 690

5. Which is a true statement?

Ⓐ  $524\ 316 > 542\ 163$

Ⓑ  $415\ 362 > 415\ 623$

Ⓒ  $635\ 231 < 635\ 213$

Ⓓ  $352\ 641 > 352\ 461$

6. Which list shows the numbers in order from greatest to least?

Ⓐ 

846 795
864 597
864 957

Ⓑ 

864 597
864 957
846 795

Ⓒ 

864 957
864 597
846 795

Ⓓ 

864 957
846 795
864 597

7. Which is 378 302 rounded to the nearest hundred thousand?

Ⓐ 378 000

Ⓑ 380 000

Ⓒ 400 000

Ⓓ 300 000

8. Which does the 6 mean in 706 040?

Ⓐ 6

Ⓑ 6 ten thousands

Ⓒ 6 thousands

Ⓓ 6 hundred thousands

9. Which is the expanded form for 20 040 005? 9. \_\_\_\_\_
- (a)  $200 + 4000 + 5$  (b)  $20\,000\,000 + 4000 + 5$  10. \_\_\_\_\_
- (c)  $20\,000\,000 + 40\,000 + 500$  (d)  $20\,000\,000 + 40\,000 + 5$  11. \_\_\_\_\_
10. Which is a true statement? 12. \_\_\_\_\_
- (a)  $38\,004\,005 > 380\,005\,004$  (b)  $38\,005\,004 > 380\,004\,005$  13. \_\_\_\_\_
- (c)  $38\,004\,005 < 3\,850\,400$  (d)  $38\,004\,005 < 38\,400\,005$  14. \_\_\_\_\_
11. Which is 92 384 rounded to the nearest thousand? 15. \_\_\_\_\_
- (a) 90 000 (b) 92 000 (c) 93 000 (d) 100 000 16. \_\_\_\_\_
12. Which is the standard form for  $800\,000 + 80\,000 + 400 + 2$ ?
- (a) 88 402 (b) 880 402 (c) 808 402 (d) 8842
13. Which way is 47 000 355 read?
- (a) 47 thousand 355 (b) 355 million 47
- (c) 4 million 7 thousand 355 (d) 47 million 355
14. Which list shows the numbers in order from least to greatest?
- (a) 

5 430 720
5 403 270
5 403 027
5 340 702

 (b) 

5 430 720
5 403 270
5 340 702
5 403 027

 (c) 

5 340 702
5 403 027
5 403 270
5 430 720

 (d) 

5 340 702
5 403 270
5 430 720
5 403 027
15. Which is 41 504 978 rounded to the nearest million?
- (a) 41 000 000 (b) 42 000 000 (c) 4 000 000 (d) 40 000 000
16. Which is a true statement?
- (a)  $670\,076 < 706\,067$  (b)  $670\,076 < 607\,067$
- (c)  $607\,760 > 670\,067$  (d)  $760\,670 < 670\,760$

17. Which is the expanded form for 7 300 620?

(a)  $7 + 300 + 620$

(b)  $7\,000\,000 + 300\,000 + 600 + 20$

(c)  $7\,000\,000 + 3000 + 600 + 20$

(d)  $620\,000\,000 + 300\,000 + 7$

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

18. Which does the 2 mean in 243 004?

(a) 2

(b) 2 hundred thousands

(c) 2 hundreds

(d) 2 ten thousands

19. Which way is 6 042 015 read?

(a) 6 million 42 thousand 15

(b) 15 million 42 thousand 6

(c) 6 million 420 thousand 150

(d) 604 thousand 215

20. Which is the standard form for MDCCCXLVII?

(a) 1847

(b) 1867

(c) 1247

(d) 1767

21. Which list shows the numbers in order from greatest to least?

(a) 

403 202
340 220
304 220
304 202

(b) 

304 202
304 220
340 220
403 202

(c) 

304 202
403 202
304 220
340 220

(d) 

403 202
304 220
340 220
304 202

Add.

$$\begin{array}{r} 1. \ 3425 \\ \underline{2351} \end{array}$$

$$\begin{array}{r} 2. \ 3454 \\ \underline{5162} \end{array}$$

$$\begin{array}{r} 3. \ 31\ 867 \\ \underline{37\ 514} \end{array}$$

$$\begin{array}{r} 4. \ 3898 \\ \underline{1439} \end{array}$$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

$$\begin{array}{r} 5. \ 27\ 627 \\ \underline{25\ 643} \end{array}$$

$$\begin{array}{r} 6. \ \$43.43 \\ \underline{47.85} \end{array}$$

$$\begin{array}{r} 7. \ \$198.65 \\ \underline{12.35} \end{array}$$

$$\begin{array}{r} 8. \ 1\ 912 \\ \underline{4\ 651} \\ \underline{60\ 959} \end{array}$$

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

$$9. \ 25\ 186 + 2387$$

$$10. \ \$47\ 867 + \$1427$$

$$11. \ 7856 + 36\ 684 + 8503$$

10. \_\_\_\_\_

11. \_\_\_\_\_

Subtract.

$$\begin{array}{r} 12. \ 4968 \\ \underline{2823} \end{array}$$

$$\begin{array}{r} 13. \ 7617 \\ \underline{5474} \end{array}$$

$$\begin{array}{r} 14. \ 24\ 478 \\ \underline{9\ 826} \end{array}$$

$$\begin{array}{r} 15. \ 95\ 265 \\ \underline{59\ 837} \end{array}$$

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

$$\begin{array}{r} 16. \ 6038 \\ \underline{2564} \end{array}$$

$$\begin{array}{r} 17. \ \$62.71 \\ \underline{15.48} \end{array}$$

$$\begin{array}{r} 18. \ \$951.22 \\ \underline{287.56} \end{array}$$

$$\begin{array}{r} 19. \ 9004 \\ \underline{4212} \end{array}$$

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

$$20. \ 8443 - 3627$$

$$21. \ 10\ 308 - 9721$$

19. \_\_\_\_\_

20. \_\_\_\_\_

$$22. \ \$853.02 - \$281.69$$

$$23. \ 12\ 345 - 6789$$

21. \_\_\_\_\_

22. \_\_\_\_\_

24. In 1975 the town's population was 22 568 people. By 1980 the population had grown by 4689 people. What was the population of the town in 1980?

25. There were \$120.13 in Tom's bank account. He withdrew \$41.35. How much is left?

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

Choose the correct answer.

1. 
$$\begin{array}{r} 452 \\ + 327 \\ \hline \end{array}$$
 (a) 125 (b) 889 (c) 779 (d) 789
2. 
$$\begin{array}{r} 5491 \\ + 3930 \\ \hline \end{array}$$
 (a) 1561 (b) 9420 (c) 9431 (d) 9421
3. 
$$\begin{array}{r} \$163.26 \\ + 69.85 \\ \hline \end{array}$$
 (a) \$122.01 (b) \$233.11 (c) \$93.41 (d) \$232.11
4. 
$$\begin{array}{r} 4427 \\ 1825 \\ + 1934 \\ \hline \end{array}$$
 (a) 8286 (b) 6176 (c) 7186 (d) 8186
5. 
$$\begin{array}{r} 3765 \\ - 243 \\ \hline \end{array}$$
 (a) 4008 (b) 1522 (c) 3512 (d) 3522
6. 
$$\begin{array}{r} 21868 \\ - 18295 \\ \hline \end{array}$$
 (a) 3673 (b) 13673 (c) 3573 (d) 17633
7. 
$$\begin{array}{r} \$863.02 \\ - 397.84 \\ \hline \end{array}$$
 (a) \$466.28 (b) \$576.28 (c) \$1260.86 (d) \$465.18
8. 
$$\begin{array}{r} 60001 \\ - 5644 \\ \hline \end{array}$$
 (a) 55467 (b) 65645 (c) 65643 (d) 54357
9. 
$$\begin{array}{r} 47568 \\ + 12321 \\ \hline \end{array}$$
 (a) 59889 (b) 35247 (c) 60999 (d) 59888
10. 
$$\begin{array}{r} 83263 \\ - 45638 \\ \hline \end{array}$$
 (a) 37625 (b) 128901 (c) 48635 (d) 37525
11. 
$$\begin{array}{r} 27943 \\ + 7562 \\ \hline \end{array}$$
 (a) 24405 (b) 35515 (c) 35505 (d) 103563
12. 
$$\begin{array}{r} 6475 \\ - 3042 \\ \hline \end{array}$$
 (a) 9517 (b) 3033 (c) 3433 (d) 3463
13.  $27382 + 2405$  (a) 29787 (b) 51432 (c) 24977 (d) 30897
14.  $17645 - 5024$  (a) 12621 (b) 22669 (c) 12021 (d) 2611
15.  $\$475.97 + \$58.64$  (a) \$423.51 (b) \$534.61 (c) \$53461 (d) \$417.33

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_

16.  $3968 + 34\,615 + 27\,764$  16. \_\_\_\_\_  
(a) 65 347 (b) 54 237 (c) 66 347 (d) 16 347 17. \_\_\_\_\_
17.  $\$12.15 - \$3.59$  18. \_\_\_\_\_  
(a)  $\$9.56$  (b)  $\$8.56$  (c)  $\$15.74$  (d)  $\$9.66$  19. \_\_\_\_\_
18.  $3001 - 1475$  20. \_\_\_\_\_  
(a) 4476 (b) 2474 (c) 1526 (d) 2636 21. \_\_\_\_\_
19.  $82\,764 + 54\,685$  22. \_\_\_\_\_  
(a) 137 449 (b) 136 349 (c) 147 459 (d) 137 459 23. \_\_\_\_\_
20.  $\$367.98 + \$84.65 + \$345.74$  24. \_\_\_\_\_  
(a)  $\$686.27$  (b)  $\$798.37$  (c)  $\$797.37$  (d)  $\$1560.22$  25. \_\_\_\_\_
21.  $995 + 2736 + 10\,648$  26. \_\_\_\_\_  
(a) 13 379 (b) 14 379 (c) 12 269 (d) 27 519 27. \_\_\_\_\_
22.  $\$105.41 - \$39.88$   
(a)  $\$65.53$  (b)  $\$145.29$  (c)  $\$6553$  (d)  $\$134.47$
23.  $7122 - 4695$   
(a) 3573 (b) 2537 (c) 2427 (d) 11 817
24.  $40\,010 - 27\,263$   
(a) 12 747 (b) 27 253 (c) 13 857 (d) 12 753
25. The Gibbs family wanted a house costing  $\$50\,600$ . They had  $\$12\,750$ .  
How much money did they need to borrow?  
(a)  $\$37\,850$  (b)  $\$48\,950$  (c)  $\$63\,350$  (d)  $\$42\,150$
26. Toronto's football stadium holds 54 040 people. Hamilton's stadium  
holds 34 100. How many more people will Toronto's stadium hold than  
Hamilton's?  
(a) 88 140 (b) 20 140 (c) 20 940 (d) 19 940
27. Edmonton's football stadium holds 42 640 people. Calgary's stadium  
holds 35 500. How many people will the two stadiums hold together?  
(a) 7140 (b) 78 140 (c) 77 140 (d) 78 100

Multiply.

$$\begin{array}{r} 1. \ 63 \\ \underline{\phantom{00}} 5 \end{array}$$

$$\begin{array}{r} 2. \ 173 \\ \underline{\phantom{00}} 7 \end{array}$$

$$\begin{array}{r} 3. \ 8162 \\ \underline{\phantom{0000}} 4 \end{array}$$

$$\begin{array}{r} 4. \ 47 \ 235 \\ \underline{\phantom{000000}} 6 \end{array}$$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

$$\begin{array}{r} 5. \ 83 \\ \underline{\phantom{00}} 20 \end{array}$$

$$\begin{array}{r} 6. \ 685 \\ \underline{\phantom{000}} 70 \end{array}$$

$$\begin{array}{r} 7. \ 647 \\ \underline{\phantom{000}} 300 \end{array}$$

$$\begin{array}{r} 8. \ 15 \\ \underline{\phantom{00}} 15 \end{array}$$

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

$$\begin{array}{r} 9. \ 93 \\ \underline{\phantom{00}} 34 \end{array}$$

$$\begin{array}{r} 10. \ 26 \\ \underline{\phantom{00}} 98 \end{array}$$

$$\begin{array}{r} 11. \ 385 \\ \underline{\phantom{000}} 89 \end{array}$$

$$\begin{array}{r} 12. \ 9704 \\ \underline{\phantom{00000}} 52 \end{array}$$

$$\begin{array}{r} 13. \ 208 \\ \underline{\phantom{000}} 136 \end{array}$$

$$\begin{array}{r} 14. \ 457 \\ \underline{\phantom{000}} 894 \end{array}$$

$$\begin{array}{r} 15. \ \$409 \\ \underline{\phantom{000}} 97 \end{array}$$

$$\begin{array}{r} 16. \ \$8.51 \\ \underline{\phantom{00000}} 325 \end{array}$$

Round each factor and multiply to estimate the product.

17.  $\begin{array}{r} 649 \\ \times 23 \\ \hline \end{array}$

18.  $\begin{array}{r} 8501 \\ \times 79 \\ \hline \end{array}$

19.  $\begin{array}{r} 564 \\ \times 638 \\ \hline \end{array}$

17. \_\_\_\_\_  
18. \_\_\_\_\_  
19. \_\_\_\_\_  
20. \_\_\_\_\_  
21. \_\_\_\_\_  
22. \_\_\_\_\_  
23. \_\_\_\_\_  
24. \_\_\_\_\_  
25. \_\_\_\_\_

Solve.

20. A sheet of stamps has 100 stamps. Mr. Bailey bought 28 sheets. How many stamps did he get?

21. Last year a toy store sold 346 bikes. Each bike sold for \$97.85. What was the total sales for the bikes?

Multiply.

22.  $5 \times 472$

23.  $79 \times 53$

24.  $48 \times 630$

25.  $396 \times \$4.62$

Choose the correct answer.

1. 
$$\begin{array}{r} 738 \\ \times 3 \\ \hline \end{array}$$
 (a) 2204 (b) 2214 (c) 2194 (d) 21 924
2. 
$$\begin{array}{r} 685 \\ \times 60 \\ \hline \end{array}$$
 (a) 4080 (b) 4110 (c) 41 100 (d) 36 800
3. 
$$\begin{array}{r} 37 \\ \times 75 \\ \hline \end{array}$$
 (a) 2675 (b) 2135 (c) 2345 (d) 2775
4. 
$$\begin{array}{r} 739 \\ \times 502 \\ \hline \end{array}$$
 (a) 38 428 (b) 370 978 (c) 5173 (d) 35 018
5. 
$$\begin{array}{r} 5073 \\ \times 8 \\ \hline \end{array}$$
 (a) 40 584 (b) 40 564 (c) 4584 (d) 4564
6. 
$$\begin{array}{r} 69 \\ \times 70 \\ \hline \end{array}$$
 (a) 139 (b) 4230 (c) 420 (d) 4830
7. 
$$\begin{array}{r} 586 \\ \times 26 \\ \hline \end{array}$$
 (a) 15 236 (b) 13 706 (c) 4688 (d) 19 436
8. 
$$\begin{array}{r} 793 \\ \times 264 \\ \hline \end{array}$$
 (a) 9516 (b) 145 412 (c) 193 942 (d) 209 352
9. 
$$\begin{array}{r} 42598 \\ \times 5 \\ \hline \end{array}$$
 (a) 200 550 (b) 244 990 (c) 211 490 (d) 212 990
10. 
$$\begin{array}{r} 374 \\ \times 900 \\ \hline \end{array}$$
 (a) 336 600 (b) 33 660 (c) 273 600 (d) 2700
11. 
$$\begin{array}{r} \$426 \\ \times 85 \\ \hline \end{array}$$
 (a) \$36 110 (b) \$36 210 (c) \$5538 (d) \$362.10
12. 
$$\begin{array}{r} \$7.49 \\ \times 823 \\ \hline \end{array}$$
 (a) \$6164.27 (b) \$5792.07 (c) \$771.47 (d) \$97.37

13. Which is the best estimate for  $79 \times 42$ ?

- (a) 4000 (b) 2800 (c) 320 (d) 3200

14. Which is the best estimate for  $3935 \times 447$ ?

- (a) 2 000 000 (b) 160 000 (c) 1 600 000 (d) 16 000 000

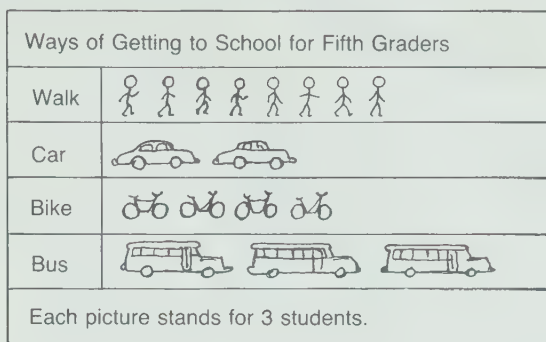
15. Which is the best estimate for  $7901 \times 49$ ?

- (a) 400 000 (b) 320 000 (c) 40 000 (d) 350 000

16. Michael earned \$3.75 for each lawn he mowed. One month he mowed 24 lawns. How much did he earn that month?
16. \_\_\_\_\_  
17. \_\_\_\_\_  
18. \_\_\_\_\_
- (a) \$27.75    (b) \$9000    (c) \$90.00    (d) \$22.50
17. British Columbia's football stadium holds 32 752 people. If all the seats sold for 5 straight games, which was the total attendance for those games?
- (a) 150 550    (b) 163 760    (c) 305 000    (d) 163 706
18. There are 3600 s in one hour and 168 h in one week. How many seconds are there in one week?
- (a) 3768    (b) 54 000    (c) 604 800    (d) 1 014 800

For this pictograph,

1. how many fifth graders go to school by bus?
2. What is the most popular way of getting to school?
3. Do more fifth graders walk to school than travel by car, bike, or bus?
4. What is the total number of fifth graders that travel by car, bike, or bus?

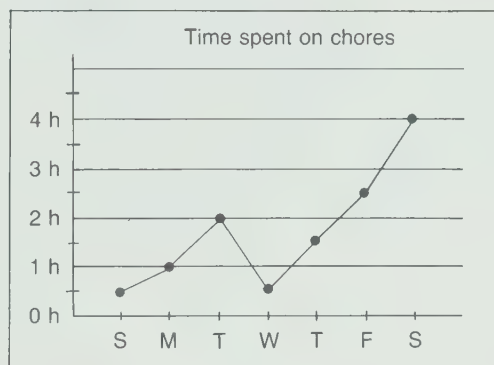


1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_

Use  
graph  
paper.

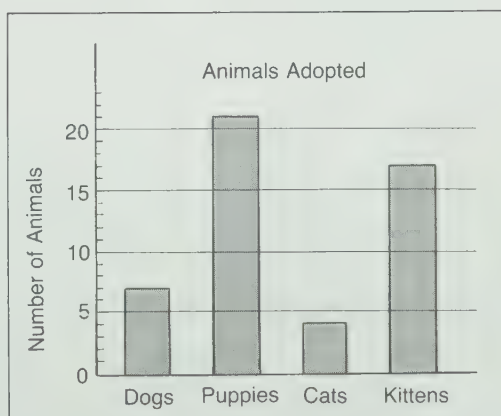
For this line graph,

5. on which two days was the same amount of time spent on chores?
6. How much time was spent on Saturday?
7. On which day were 1.5 h spent?
8. Was less time spent on Monday or on Wednesday? How much less?



For this bar graph,

9. which animal was the most wanted?
10. Which animal was the least wanted?
11. 17 of one type of animal were adopted. Which type?
12. Were more dogs or cats adopted? How many more?

















Use graph paper. Plot each of these.

13. M(3,5)
14. N(4,2)

Choose the correct answer.

Use this graph for exercises 1 to 3.

Shoe Types for Fifth Graders	
Tie	   
Buckle	  
Sandals	 
Sneakers	    
Each picture stands for 5 students.	

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

1. How many fifth graders wear tie shoes, buckle shoes, or sandals?

- (a) 9                      (b) 25                      (c) 35                      (d) 45

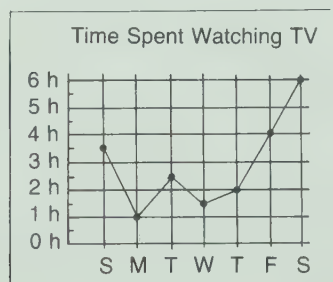
2. Which is the most popular shoe for the fifth graders?

- (a) tie                      (b) buckle                      (c) sandals                      (d) sneakers

3. How many more students wear sneakers than sandals?

- (a) 3                      (b) 15                      (c) 25                      (d) 10

Use this graph for exercises 4 to 6.



4. On which day of the week was TV watched for 3.5 h?

- (a) Sunday                      (b) Tuesday                      (c) Thursday                      (d) Friday

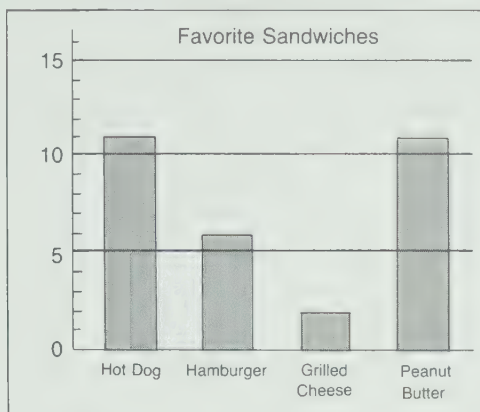
5. How many hours were spent watching TV Monday through Friday?

- (a) 10                      (b) 11                      (c) 14.5                      (d) 20.5

6. How much more TV was watched on Saturday than on Sunday?

- (a) 9.5 h                      (b) 6 h                      (c) 2.5 h                      (d) 25 h

Use this graph for exercises 7 to 9.



7. \_\_\_\_\_  
8. \_\_\_\_\_  
9. \_\_\_\_\_  
10. \_\_\_\_\_  
11. \_\_\_\_\_  
12. \_\_\_\_\_

7. How many students were surveyed to find their favorite sandwich?

- (a) 17      (b) 19      (c) 22      (d) 30

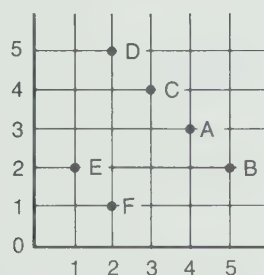
8. Which is the most popular favorite sandwich?

- (a) hot dog      (b) peanut butter  
(c) hot dog or peanut butter      (d) peanut butter or hamburger

9. How many more students liked hamburger than grilled cheese?

- (a) 8      (b) 4      (c) 6      (d) 2

Use this grid for exercises 10 to 12.



10. Which ordered pair of numbers matches point A?

- (a) (3,4)      (b) (3,2)      (c) (4,3)      (d) (2,3)

11. Which point matches (5,2)?

- (a) B      (b) D      (c) E      (d) F

12. Which ordered pair of numbers matches point F?

- (a) (1,2)      (b) (2,1)      (c) (2,2)      (d) (3,1)

Divide.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

1.  $7 \overline{)28}$

2.  $6 \overline{)41}$

3.  $2 \overline{)864}$

4.  $4 \overline{)48}$

5.  $5 \overline{)95}$

6.  $3 \overline{)88}$

7.  $9 \overline{)567}$

8.  $2 \overline{)759}$

9.  $7 \overline{)4466}$

10.  $6 \overline{)3178}$

11.  $3 \overline{)\$822}$

12.  $8 \overline{)\$50.80}$

13.  $45 \div 6$

14.  $639 \div 3$

15.  $92 \div 4$

Divide.

16. \_\_\_\_\_

17. \_\_\_\_\_

16.  $83 \div 5$

17.  $378 \div 9$

18.  $537 \div 2$

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

19.  $6792 \div 8$

20.  $71\,980 \div 9$

21.  $\$525 \div 7$

22. 268 marbles are shared equally by 3 children. How many marbles does each child get? How many marbles are left over?
23. 5 cans of vegetables cost \$2.30. What was the average cost for each can?
24. Tony's daily earnings for Monday through Friday were \$1.55, \$1.30, \$1.85, \$1.95, and \$1.10. How much was his average daily earnings?

Choose the correct answer.

1. Which multiplication fact is used to find  $24 \div 4$ ?

- (a)  $4 \times 24 = 96$  (b)  $4 \times 6 = 24$  (c)  $3 \times 8 = 24$  (d)  $4 \times 5 = 20$

2. Which multiplication fact is used to find  $31 \div 7$ ?

- (a)  $7 \times 31 = 217$  (b)  $7 \times 5 = 35$

- (c)  $7 \times 4 = 28$  (d)  $5 \times 6 = 30$

3. Which multiplication fact is used to find  $42 \div 5$ ?

- (a)  $5 \times 8 = 40$  (b)  $5 \times 42 = 210$

- (c)  $5 \times 9 = 45$  (d)  $6 \times 7 = 42$

4.  $35 \div 7$

- (a) 42 (b) 28 (c) 6 (d) 5

5.  $60 \div 8$

- (a) 7 (b) 7 R4 (c) 52 (d) 68

6.  $567 \div 9$

- (a) 60 R7 (b) 63 (c) 111 R2 (d) 558

7.  $6560 \div 9$

- (a) 740 (b) 728 R8 (c) 706 R6 (d) 729 R1

8.  $\$504 \div 8$

- (a) \$63 (b) \$496 (c) \$62 (d) \$60

9.  $78 \div 3$

- (a) 75 (b) 22 R2 (c) 25 R3 (d) 26

10.  $1895 \div 5$

- (a) 319 (b) 371 (c) 311 (d) 379

11.  $628 \div 2$

- (a) 630 (b) 626 (c) 314 (d) 304

12.  $304 \div 7$

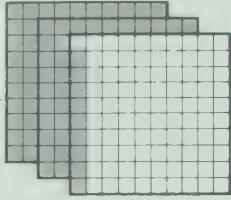
- (a) 43 R3 (b) 57 R5 (c) 297 (d) 40 R3

1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_  
6. \_\_\_\_\_  
7. \_\_\_\_\_  
8. \_\_\_\_\_  
9. \_\_\_\_\_  
10. \_\_\_\_\_  
11. \_\_\_\_\_  
12. \_\_\_\_\_

13.  $\$9.03 \div 7$  13. \_\_\_\_\_  
    (a) \$1.02      (b) \$8.96      (c) \$129      (d) \$1.29 14. \_\_\_\_\_  
14.  $690 \div 3$  15. \_\_\_\_\_  
    (a) 320      (b) 230      (c) 2070      (d) 23 16. \_\_\_\_\_  
15.  $86 \div 6$  17. \_\_\_\_\_  
    (a) 80      (b) 11      (c) 14 R2      (d) 14 18. \_\_\_\_\_  
16.  $944 \div 4$  19. \_\_\_\_\_  
    (a) 211      (b) 231      (c) 236      (d) 940 20. \_\_\_\_\_  
17.  $1308 \div 4$  21. \_\_\_\_\_  
    (a) 327      (b) 302      (c) 5232      (d) 34 R2 22. \_\_\_\_\_  
18.  $\$8.19 \div 3$  23. \_\_\_\_\_  
    (a) \$2.33      (b) \$24.57      (c) \$2.06      (d) \$2.73 24. \_\_\_\_\_  
19. 160 km were travelled in 4 h. Which is the average distance travelled each hour?  
    (a) 640      (b) 4      (c) 40      (d) 44  
20. \$18.90 are shared equally by 7 people. How much will each get?  
    (a) \$2.10      (b) \$132.30      (c) \$2.70      (d) \$2.07  
21. 184 peanuts are shared equally by 4 people. How many peanuts will each get?  
    (a) 736      (b) 46      (c) 41      (d) 421  
22. 6 apples have a total mass of 786 g. Which is the average mass of an apple?  
    (a) 4716 g      (b) 111 g      (c) 130 g      (d) 131 g  
23. 5 boys have a total height of 740 cm. Which is the average height of one boy?  
    (a) 148 cm      (b) 3700 cm      (c) 100 cm      (d) 140 cm  
24. On a field trip 35 students travelled by cars. 5 students were in each car. How many cars were needed?  
    (a) 7      (b) 5      (c) 175      (d) 6

Write a decimal for each of these.

1.



2.



1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

13. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

Tell what each 7 means.

4. 4.247

5. 8.671

Write each as a one-place decimal.

6. 10.200

7. 0.80

Write each as a three-place decimal.

8. 2.7

9. 21.89

Use  $>$ ,  $<$ , or  $=$  to make true statements.10.  $4.429 \ominus 4.46$ 11.  $7.8 \ominus 7.800$ 

List from greatest to least.

12. 0.341, 0.284, 0.402, 0.346

List from least to greatest.

13. 7.6, 8.204, 8.24, 7.069

Round to the nearest whole number.

14. 4.27

15. 7.521

Round to the nearest tenth.

16. 3.59

17. 8.017

Add.

18.  $\begin{array}{r} 2.5 \\ 3.6 \\ \hline \end{array}$ 19.  $\begin{array}{r} 4.78 \\ 1.69 \\ \hline \end{array}$ 20.  $\begin{array}{r} 36.34 \\ 54.98 \\ \hline \end{array}$ 21.  $\begin{array}{r} 8.786 \\ 5.277 \\ 3.434 \\ \hline \end{array}$ 

Subtract.

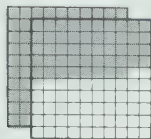
22.  $\begin{array}{r} 8.5 \\ 3.7 \\ \hline \end{array}$ 23.  $\begin{array}{r} 9.31 \\ 3.74 \\ \hline \end{array}$ 24.  $\begin{array}{r} 8.321 \\ 2.646 \\ \hline \end{array}$ 25.  $\begin{array}{r} 80.04 \\ 45.39 \\ \hline \end{array}$

Choose the correct answer.

1. \_\_\_\_\_

1. Which decimal shows how much is shaded?

2. \_\_\_\_\_



3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

- (a) 1.52      (b) 1.48      (c) 1.052      (d) 1.048

2. Which decimal matches the point indicated on the number line?



- (a) 4.054      (b) 4.047      (c) 4.046      (d) 4.100

3. Which is the decimal for 6 and 23 thousandths?

- (a) 6.023      (b) 6.23      (c) 623 000      (d)  $6\frac{23}{1000}$

4. Which does the 4 mean in 7.043?

- (a) 4 tenths      (b) 4 hundredths      (c) 40 hundredths      (d) 4 thousandths

5. Which shows another way of expressing 8.70?

- (a) 870      (b) 87      (c) 8.7      (d) 8.07

6. Which list shows the numbers in order from least to greatest?

- (a) 

4.7
4.37
4.307

      (b) 

4.37
4.307
4.7

      (c) 

4.37
4.7
4.307

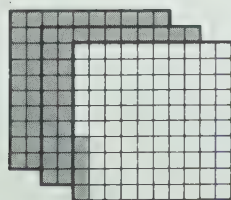
      (d) 

4.307
4.37
4.7

7. Which is 6.254 rounded to the nearest tenth?

- (a) 6.2      (b) 6.3      (c) 6.25      (d) 6.0

8. Which decimal shows how much is shaded?



- (a) 2.4      (b) 0.04      (c) 2.04      (d) 2.96

9. Which decimal matches the point indicated on the number line?



- (a) 2.90      (b) 2.73      (c) 2.78      (d) 2.72

10. Which does the 6 mean in 3.654?

- (a) 6      (b) 6 thousandths      (c) 6 hundredths      (d) 6 tenths

11. Which is 3.067 rounded to the nearest whole number?

- (a) 4      (b) 3.1      (c) 3.07      (d) 3

12. Which is a true statement?

- (a)  $0.06 > 0.6$       (b)  $0.06 = 0.6$       (c)  $0.6 > 0.06$       (d)  $0.6 > 1.06$

13. Which is the decimal for 1 and 3 hundredths?

- (a) 1.30      (b) 3.01      (c)  $1\frac{3}{100}$       (d) 1.03

14. Which list shows the numbers in order from least to greatest?

- (a) 

2.05
2.5
5.02
5.2

      (b) 

5.2
5.02
2.5
2.05

      (c) 

5.02
5.2
2.05
2.5

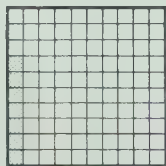
      (d) 

2.5
2.05
5.2
5.02

15. Which does the 2 mean in 3.002?

- (a) 2 thousandths      (b) 2 hundredths      (c) 2 tenths      (d) 2

16. Which decimal shows how much is shaded?



- (a) 0.07      (b) 0.7      (c) 7.0      (d) 0.3

17. Which is a true statement?

- (a)  $0.4 < 0.04$       (b)  $4.57 < 4.570$       (c)  $3.087 > 3.86$       (d)  $6.24 < 6.4$

18. Which is 9.508 rounded to the nearest tenth?

- (a) 9.5      (b) 9.6      (c) 10.0      (d) 9.51

19. Which is the decimal for 7 tenths?

- (a) 0.07      (b) 0.7      (c) 7.0      (d) 0.007

20. Which decimal matches the point indicated on the number line?



- (a) 0.028      (b) 0.100      (c) 0.032      (d) 0.029

21. Which list shows the numbers in order from greatest to least?

- (a)  $\begin{array}{r} 1.234 \\ 1.243 \\ 1.324 \\ 1.423 \end{array}$

- (b)  $\begin{array}{r} 1.423 \\ 1.324 \\ 1.243 \\ 1.234 \end{array}$

- (c)  $\begin{array}{r} 1.234 \\ 1.324 \\ 1.243 \\ 1.423 \end{array}$

- (d)  $\begin{array}{r} 1.324 \\ 1.243 \\ 1.423 \\ 1.234 \end{array}$

22. 
$$\begin{array}{r} 4.45 \\ + 3.56 \\ \hline \end{array}$$

- (a) 7.01      (b) 7.91      (c) 8.01      (d) 7.911

23. 
$$\begin{array}{r} 60.45 \\ - 32.47 \\ \hline \end{array}$$

- (a) 27.98      (b) 32.02      (c) 28.98      (d) 38.08

24. 
$$\begin{array}{r} 7.432 \\ - 4.765 \\ \hline \end{array}$$

- (a) 12.197      (b) 2.667      (c) 3.333      (d) 3.777

25. 
$$\begin{array}{r} 6.254 \\ 3.185 \\ + 2.744 \\ \hline \end{array}$$

- (a) 12.183      (b) 11.073      (c) 12.183      (d) 11.0814

26. 
$$\begin{array}{r} 13.06 \\ + 3.87 \\ \hline \end{array}$$

- (a) 16.93      (b) 16.83      (c) 16.93      (d) 16.13

27. 
$$\begin{array}{r} 40.01 \\ - 7.36 \\ \hline \end{array}$$

- (a) 47.37      (b) 47.35      (c) 32.65      (d) 33.75

Measure to the nearest centimetre.

1. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. Use other

18. side.

Measure to the nearest millimetre.

2. \_\_\_\_\_

Give each length in centimetres.

3. 3.54 m

4. 24 mm

Give each length in millimetres.

5. 10.5 cm

6. 7.5 m

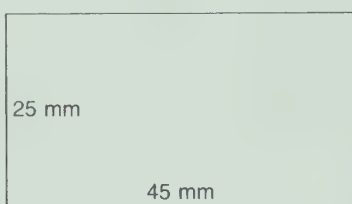
Give each length in metres.

7. 267 cm

8. 1825 mm

Find the perimeter.

9.

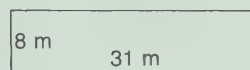


10.

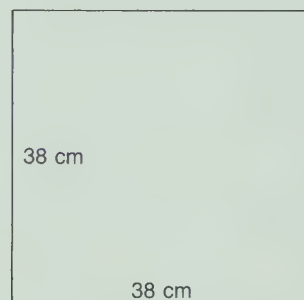


Find the area.

11.



12.



Measure to find the

13. perimeter.

14. area.



Measure to find the

15. perimeter.

16. area.



On the other side of this page, draw

17. a rectangle with perimeter of 16 cm.

18. a rectangle with area of  $24 \text{ cm}^2$ .

Choose the correct answer.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

1. Which is the length to the nearest centimetre?

\_\_\_\_\_

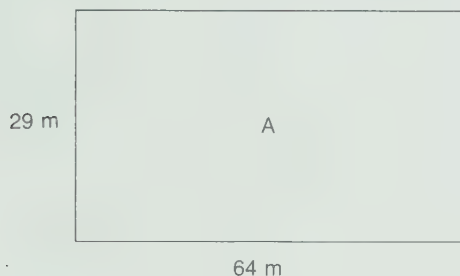
- (a) 3 cm      (b) 4 cm      (c) 5 cm      (d) 6 cm

2. Which is the length to the nearest millimetre?

\_\_\_\_\_

- (a) 35 mm      (b) 36 mm      (c) 37 mm      (d) 38 mm

Use this rectangle for exercises 3 and 4.



3. Which is the perimeter of rectangle A?

- (a) 1856 m      (b) 93 m      (c) 166 m      (d) 186 m

4. Which is the area of rectangle A?

- (a)  $186 \text{ m}^2$       (b)  $704 \text{ m}^2$       (c)  $1856 \text{ m}^2$       (d)  $18.26 \text{ m}^2$

5. Which is the length to the nearest centimetre?

\_\_\_\_\_

- (a) 32 cm      (b) 2 cm      (c) 4 cm      (d) 3 cm

6. Which is the length to the nearest millimetre?

\_\_\_\_\_

- (a) 3 mm      (b) 25 mm      (c) 35 mm      (d) 30 mm

Use this rectangle for exercises 7 and 8.



7. \_\_\_\_\_  
8. \_\_\_\_\_  
9. \_\_\_\_\_  
10. \_\_\_\_\_  
11. \_\_\_\_\_  
12. \_\_\_\_\_

7. Which is the perimeter of rectangle B?

- (a) 8 cm      (b) 15 cm      (c) 16 cm      (d) 20 cm

8. Which is the area of rectangle B?

- (a)  $8 \text{ cm}^2$       (b)  $15 \text{ cm}^2$       (c)  $16 \text{ cm}^2$       (d)  $25 \text{ cm}^2$

9. Which is the length to the nearest centimetre?

\_\_\_\_\_

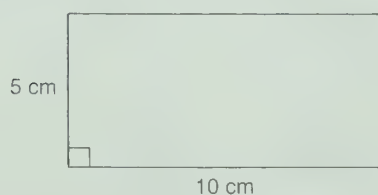
- (a) 7 cm      (b) 8 cm      (c) 9 cm      (d) 79 cm

10. Which is the length to the nearest millimetre?

\_\_\_\_\_

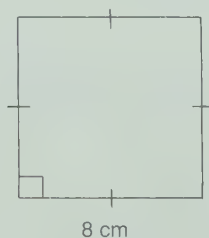
- (a) 9 mm      (b) 1 mm      (c) 90 mm      (d) 5 mm

11. Which is the perimeter of this rectangle?



- (a) 15 cm      (b) 30 cm      (c) 50 cm      (d) 25 cm

12. Which is the area of this square?



- (a)  $64 \text{ cm}^2$       (b)  $32 \text{ cm}^2$       (c)  $8 \text{ cm}^2$       (d)  $16 \text{ cm}^2$

13.  $3.8 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$  13. \_\_\_\_\_  
    Ⓐ 0.38      Ⓑ 3.8      Ⓒ 38      Ⓓ 380 14. \_\_\_\_\_
14.  $280 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$  15. \_\_\_\_\_  
    Ⓐ 0.28      Ⓑ 2.80      Ⓒ 28.0      Ⓓ 2800 16. \_\_\_\_\_
15.  $7.55 \text{ m} = \underline{\hspace{2cm}} \text{ mm}$  17. \_\_\_\_\_  
    Ⓐ 7550      Ⓑ 755      Ⓒ 75.5      Ⓓ 0.755 18. \_\_\_\_\_
16. A rectangle has a perimeter of 18 cm. Which could be its dimensions? 19. \_\_\_\_\_  
    Ⓐ 10 cm and 8 cm      Ⓑ 9 cm and 2 cm 20. \_\_\_\_\_  
    Ⓒ 7 cm and 2 cm      Ⓓ 7 cm and 4 cm 21. \_\_\_\_\_
17. Which dimensions could you use to draw a rectangle with an area of  $24 \text{ cm}^2$ ?  
    Ⓐ 8 cm and 4 cm      Ⓑ 8 cm and 3 cm  
    Ⓒ 4 cm and 3 cm      Ⓓ 16 cm and 8 cm
18. Which would be the length of a side of a square with an area of  $36 \text{ cm}^2$ ?  
    Ⓐ 18 cm      Ⓑ 9 cm      Ⓒ 36 cm      Ⓓ 6 cm
19. Which dimensions could you use to draw a rectangle with a perimeter of 86 mm?  
    Ⓐ 43 mm and 43 mm      Ⓑ 43 mm and 2 mm  
    Ⓒ 46 mm and 40 mm      Ⓓ 40 mm and 3 mm
20. Which dimensions could you use to draw a rectangle with a perimeter of 120 m?  
    Ⓐ 40 m and 20 m      Ⓑ 40 m and 3 m  
    Ⓒ 80 m and 40 m      Ⓓ 50 m and 20 m
21. Which dimensions could you use to draw a rectangle with an area of  $180 \text{ cm}^2$ ?  
    Ⓐ 20 cm and 9 cm      Ⓑ 60 cm and 30 cm  
    Ⓒ 100 cm and 80 cm      Ⓓ 45 cm and 2 cm

Multiply.

1. 
$$\begin{array}{r} 4.6 \\ \times 7 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 3.86 \\ \times 3 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 9.742 \\ \times 4 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 70.5 \\ \times 5 \\ \hline \end{array}$$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

5.  $9 \times 2.6$

6.  $2 \times 7.93$

7.  $6 \times 4.692$

How much

8. for 7 ornaments  
if each costs \$1.98?9. for 4 model cars  
if each costs \$3.58?

Multiply.

10. 
$$\begin{array}{r} 3.5 \\ \times 68 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 72.5 \\ \times 73 \\ \hline \end{array}$$

12. 
$$\begin{array}{r} 749 \\ \times 9.8 \\ \hline \end{array}$$

13. 
$$\begin{array}{r} \$2.64 \\ \times 52 \\ \hline \end{array}$$

14.  $75 \times 3.8$

15.  $74 \times \$7.36$

16.  $0.48 \times 26$

Multiply.

17.  $0.01 \times 43.5$

18.  $8.62 \times 10$

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

Complete.

19.  $650 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

20.  $47 \text{ mm} = \underline{\hspace{2cm}} \text{ cm}$

26. \_\_\_\_\_

27. \_\_\_\_\_

Multiply.

21. 
$$\begin{array}{r} 0.4 \\ \times 0.3 \\ \hline \end{array}$$

22. 
$$\begin{array}{r} 5.8 \\ \times 0.2 \\ \hline \end{array}$$

23. 
$$\begin{array}{r} 8.5 \\ \times 6.9 \\ \hline \end{array}$$

24. 
$$\begin{array}{r} 95.4 \\ \times 4.6 \\ \hline \end{array}$$

25.  $1.9 \times 0.5$

26.  $9.8 \times 3.8$

27.  $29.7 \times 4.7$

Choose the correct answer.

1. 
$$\begin{array}{r} 4.72 \\ \times 6 \\ \hline \end{array}$$
 (a) 28.32 (b) 283.2 (c) 24.22 (d) 2.422
2. 
$$\begin{array}{r} 4.6 \\ \times 58 \\ \hline \end{array}$$
 (a) 232.8 (b) 2668 (c) 266.8 (d) 26.68
3. 
$$\begin{array}{r} 89.2 \\ \times 0.1 \\ \hline \end{array}$$
 (a) 0.892 (b) 8.92 (c) 89.2 (d) 892
4. 
$$\begin{array}{r} 0.8 \\ \times 0.6 \\ \hline \end{array}$$
 (a) 48 (b) 4.8 (c) 0.48 (d) 0.048
5. 
$$\begin{array}{r} 64.9 \\ \times 7 \\ \hline \end{array}$$
 (a) 4543 (b) 454.3 (c) 428.3 (d) 45.43
6. 
$$\begin{array}{r} 6.37 \\ \times 29 \\ \hline \end{array}$$
 (a) 184.73 (b) 1.8473 (c) 70.07 (d) 181.13
7. 
$$\begin{array}{r} 5.724 \\ \times 3 \\ \hline \end{array}$$
 (a) 16.172 (b) 17.272 (c) 15.162 (d) 17.172
8. 
$$\begin{array}{r} 37.64 \\ \times 1000 \\ \hline \end{array}$$
 (a) 0.037 64 (b) 37.640 00 (c) 3764 (d) 37 640
9. 
$$\begin{array}{r} \$5.38 \\ \times 75 \\ \hline \end{array}$$
 (a) \$392.50 (b) \$40.35 (c) \$377.10 (d) \$403.50
10. 
$$\begin{array}{r} 0.001 \\ \times 306 \\ \hline \end{array}$$
 (a) 306 000 (b) 0.306 (c) 0.360 (d) 3.06
11. 
$$\begin{array}{r} 8.6 \\ \times 0.4 \\ \hline \end{array}$$
 (a) 3.24 (b) 32.4 (c) 3.44 (d) 34.4
12. 
$$\begin{array}{r} 5.9 \\ \times 2.6 \\ \hline \end{array}$$
 (a) 15.34 (b) 13.84 (c) 153.4 (d) 4.72

13. Which is the best estimate for  $8.7 \times 4$ ?

- (a) 32 (b) 0 (c) 45 (d) 36

14. Which is the best estimate for  $7.9 \times 9.7$ ?

- (a) 63 (b) 100 (c) 72 (d) 80

15. Which is the best estimate for  $6.13 \times 9$ ?

- (a) 63 (b) 60 (c) 54 (d) 50

16. Which is the best estimate for  $51.02 \times 5$ ? 16. \_\_\_\_\_  
(a) 250 (b) 500 (c) 300 (d) 100 17. \_\_\_\_\_  
18. \_\_\_\_\_
17. Which is the best estimate for  $859 \times 3.1$ ? 19. \_\_\_\_\_  
(a) 3000 (b) 2400 (c) 2700 (d) 270 20. \_\_\_\_\_  
21. \_\_\_\_\_
18. Which is the best estimate for  $7.1 \times 6.8$ ? 22. \_\_\_\_\_  
(a) 49 (b) 42 (c) 56 (d) 100 23. \_\_\_\_\_  
24. \_\_\_\_\_
19.  $2860 \text{ mm} = \text{_____ m}$   
(a) 0.286 (b) 2.86 (c) 28.6 (d) 286
20.  $31.2 \text{ m} = \text{_____ cm}$   
(a) 0.312 (b) 31.200 (c) 31 200 (d) 3120
21.  $47 \text{ mm} = \text{_____ dm}$   
(a) 4.7 (b) 0.47 (c) 4700 (d) 0.0047
22. How much do 4 boxes of cereal cost when each costs \$1.29?  
(a) \$4.86 (b) \$5.16 (c) \$5.29 (d) \$51.60
23. How many square centimetres of glass are in a pane 14.5 cm wide and 22.5 cm long?  
(a) 37 (b) 74 (c) 326.25 (d) 32 625
24. How much did Mark pay if he bought 8 L of motor oil at \$1.29 a litre?  
(a) \$10.32 (b) \$9.29 (c) \$8.62 (d) \$1032

For the picture, name

1. a line and line segment that are parallel.

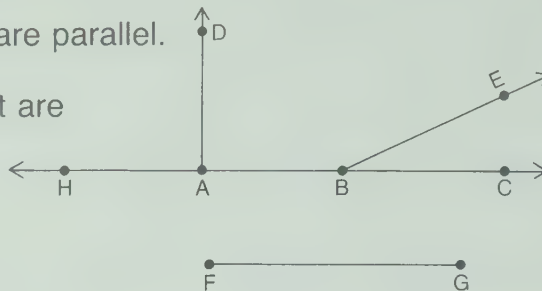
2. a line segment and a ray that are perpendicular.

3. an acute angle.

4. an obtuse angle.

5. a right angle.

6. two congruent angles.



1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. On other side

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. On diagram

18. On diagram

19. \_\_\_\_\_

20. \_\_\_\_\_

Use a protractor with the above picture.

7. Measure angle EBC.

On the other side of this page, use a protractor and draw

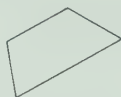
8. an angle that measures  $35^\circ$ .

Name the kind of polygon.

9.



10.



Name the kind of triangle.

11.



12.

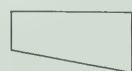


Name the kind of quadrilateral.

13.



14.



Name the kind of solid.

15.



16.



Draw a line of symmetry for the polygon in

17. Exercise 11.      18. Exercise 13.

For the solid in Exercise 16,

19. how many faces are there?

20. how many vertices are there?

Choose the correct answer.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

1. Which is the name of the figure?



(a) line RP

(b) line segment RP

(c) ray RP

(d) angle RGP

2. How are the two lines in the picture related?



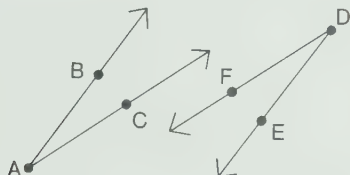
(a) parallel

(b) intersecting

(c) perpendicular

(d) none of a, b, or c

3. Which describes the two angles?



(a) congruent

(b) both obtuse

(c) one right, one obtuse

(d) one acute, one obtuse

4. Use a protractor. Which is the measure of  $\angle EDF$  in exercise 3?

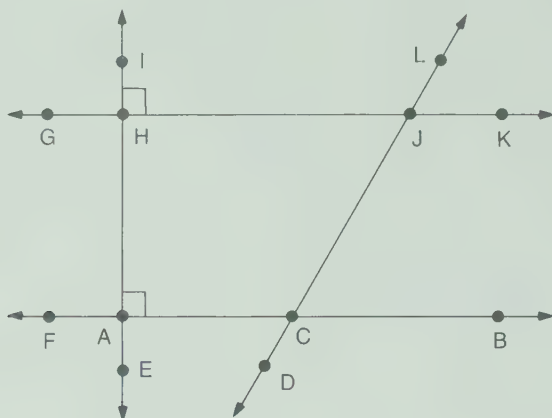
(a)  $15^\circ$

(b)  $20^\circ$

(c)  $25^\circ$

(d)  $30^\circ$

Use this diagram for exercises 5 to 15.



5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

5. Which names a line?

- Ⓐ line KB      Ⓑ line KJC      Ⓒ line KL      Ⓓ line KG

6. Which names a line segment?

- Ⓐ line segment AG      Ⓑ line segment AE  
Ⓒ line segment ACD      Ⓓ line segment AD

7. Which names a pair of perpendicular lines?

- Ⓐ  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{CD}$       Ⓑ  $\overleftrightarrow{FB}$  and  $\overleftrightarrow{GK}$       Ⓒ  $\overleftrightarrow{FB}$  and  $\overleftrightarrow{EI}$       Ⓓ  $\overleftrightarrow{JK}$  and  $\overleftrightarrow{JL}$

8. Which names a pair of parallel lines?

- Ⓐ  $\overleftrightarrow{AC}$  and  $\overleftrightarrow{HJ}$       Ⓑ  $\overleftrightarrow{AC}$  and  $\overleftrightarrow{EI}$       Ⓒ  $\overleftrightarrow{EI}$  and  $\overleftrightarrow{DL}$       Ⓓ  $\overleftrightarrow{HK}$  and  $\overleftrightarrow{DL}$

9. Which names an acute angle?

- Ⓐ  $\angle GHI$       Ⓑ  $\angle ACJ$       Ⓒ  $\angle ACB$       Ⓓ  $\angle ACD$

10. Which pair of angles are congruent?

- Ⓐ  $\angle BCD$  and  $\angle ACD$       Ⓑ  $\angle LJK$  and  $\angle GHI$   
Ⓒ  $\angle CAH$  and  $\angle JHI$       Ⓓ  $\angle FAE$  and  $\angle ACD$

11. Use a protractor. Which is the measure of  $\angle ACJ$ ?

- Ⓐ  $60^\circ$       Ⓑ  $120^\circ$       Ⓒ  $90^\circ$       Ⓓ  $150^\circ$

12. Which pair of angles is congruent?

(a)  $\angle ACD$  and  $\angle JCB$

(b)  $\angle HJL$  and  $\angle LJK$

(c)  $\angle GHI$  and  $\angle GJL$

(d)  $\angle FAE$  and  $\angle BCD$

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

13. Which names an obtuse angle?

(a)  $\angle GHJ$

(b)  $\angle BCD$

(c)  $\angle FAE$

(d)  $\angle JCB$

14. Use a protractor. Which is the measure of  $\angle LJK$ ?

(a)  $60^\circ$

(b)  $120^\circ$

(c)  $30^\circ$

(d)  $90^\circ$

15. Which names a right angle?

(a)  $\angle HAF$

(b)  $\angle HAE$

(c)  $\angle LJK$

(d)  $\angle HJL$

16. Which kind of polygon is shown?



(a) triangle

(b) pentagon

(c) hexagon

(d) octagon

17. Which kind of triangle is shown?



(a) scalene

(b) acute

(c) equilateral

(d) isosceles

18. Which kind of quadrilateral is shown?



(a) rectangle

(b) square

(c) rhombus

(d) triangle

19. In which of exercises 16, 17 and 18 is there a shape that has a line of symmetry?

(a) 16, 17, and 18

(b) 16 and 17 only

(c) 16 and 18 only

(d) 17 and 18 only

20. Which kind of solid is shown?



20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

(a) cone

(b) triangular prism

(c) cylinder

(d) triangular pyramid

21. Which helps to best describe the solid in exercise 20?

(a) 4 vertices and 6 edges

(b) 4 vertices and 4 faces

(c) 6 edges and 4 faces

(d) 4 vertices, 6 edges, and 4 faces

22. Which kind of polygon is shown?



(a) octagon

(b) pentagon

(c) hexagon

(d) quadrilateral

23. Which kind of triangle is shown?



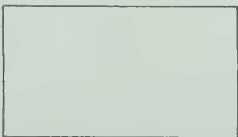
(a) equilateral

(b) scalene

(c) isosceles

(d) right

24. Which kind of quadrilateral is shown?



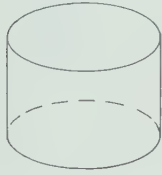
(a) rhombus

(b) square

(c) trapezoid

(d) rectangle

25. Which kind of solid is shown?



25. \_\_\_\_\_

26. \_\_\_\_\_

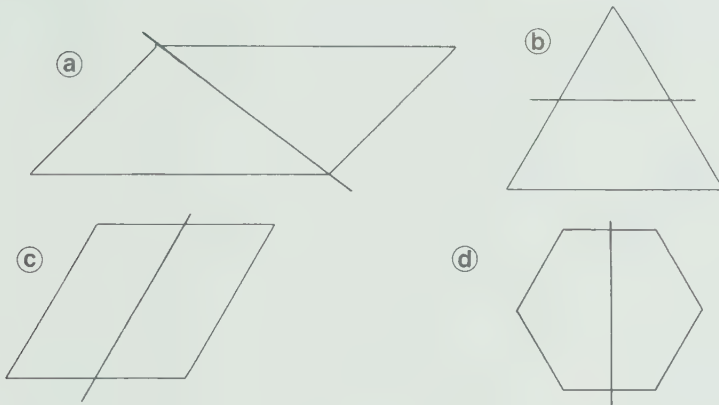
27. \_\_\_\_\_

28. \_\_\_\_\_

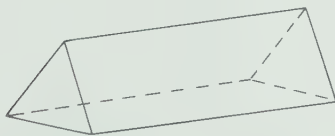
29. \_\_\_\_\_

- (a) cone      (b) sphere      (c) cylinder      (d) pyramid

26. Which shows a figure with one of its lines of symmetry drawn?



27. How many edges are in this figure?

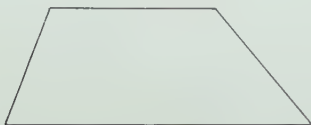


- (a) 6      (b) 5      (c) 9      (d) 8

28. How many faces are in the figure in exercise 27?

- (a) 6      (b) 5      (c) 9      (d) 2

29. Which kind of quadrilateral is shown?



- (a) parallelogram      (b) rhombus      (c) trapezoid      (d) rectangle

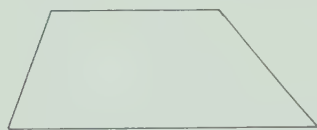
30. Which kind of polygon is shown?

30. \_\_\_\_\_

31. \_\_\_\_\_

32. \_\_\_\_\_

33. \_\_\_\_\_



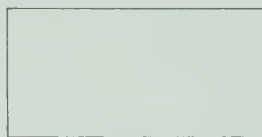
- Ⓐ quadrilateral   Ⓑ triangle   Ⓒ pentagon   Ⓓ hexagon

31. Which shape has a line of symmetry?

Ⓐ



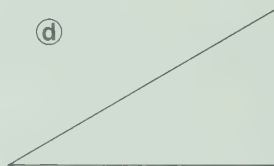
Ⓑ



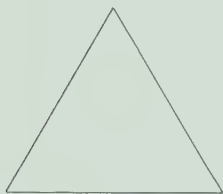
Ⓒ



Ⓓ



32. Which kind of triangle is shown?



- Ⓐ equilateral   Ⓑ scalene   Ⓒ isosceles   Ⓓ obtuse

33. Which kind of solid is shown?



- Ⓐ triangular prism   Ⓑ rectangular prism  
Ⓒ triangular pyramid   Ⓓ rectangular pyramid

Divide.

1. \_\_\_\_\_

2. \_\_\_\_\_

1.  $3 \overline{)147}$

2.  $6 \overline{)3204}$

3.  $7 \overline{)271}$

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

4.  $2 \overline{)8793}$

5.  $9 \overline{)954}$

6.  $5 \overline{)2543}$

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

7.  $40 \overline{)1440}$

8.  $80 \overline{)5360}$

9.  $50 \overline{)36\ 825}$

10.  $70 \overline{)146\ 854}$

11.  $84 \overline{)2016}$

12.  $21 \overline{)1195}$

Divide.

13.  $68 \overline{)6664}$

14.  $36 \overline{)24\,213}$

15.  $74 \overline{)512\,746}$

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

16.  $5235 \div 4$

17.  $34\,647 \div 93$

18.  $\$3863.25 \div 45$

Solve. Show your work.

19. 5 boys earned \$25.70 doing odd jobs. If they share it equally, how much do they each receive?

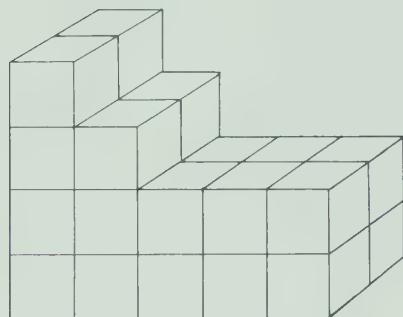
20. 26 fifth graders are taking a trip that costs \$1950. If they share the cost equally, how much would each pay?

Choose the correct answer.

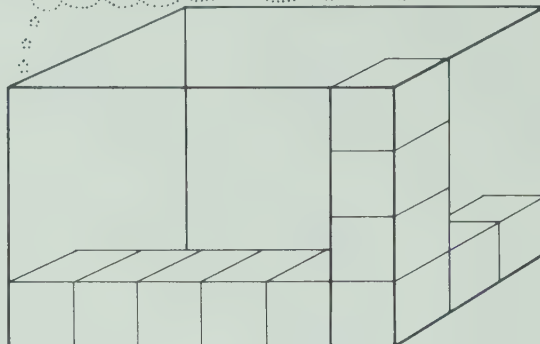
1.  $6 \overline{)3552}$       (a) 508 R4    (b) 625 R2    (c) 2113      (d) 592      1. \_\_\_\_\_
2.  $9 \overline{)3654}$       (a) 46          (b) 406          (c) 414 R8    (d) 460      2. \_\_\_\_\_
3.  $70 \overline{)477\ 680}$     (a) 68 240    (b) 682 R28    (c) 6824      (d) 6109 R5    3. \_\_\_\_\_
4.  $40 \overline{)35\ 072}$     (a) 876          (b) 877          (c) 8076 R32    (d) 876 R32    4. \_\_\_\_\_
5.  $32 \overline{)\$67\ 424}$     (a) \$217        (b) \$2010        (c) \$2107        (d) \$2170      5. \_\_\_\_\_
6.  $70 \overline{)6520}$       (a) 93          (b) 94          (c) 93 R10      (d) 931 R3      6. \_\_\_\_\_
7.  $3 \overline{)1427}$         (a) 475 R2    (b) 476 R1    (c) 475          (d) 409      7. \_\_\_\_\_
8.  $30 \overline{)2700}$       (a) 900          (b) 120          (c) 9            (d) 90      8. \_\_\_\_\_
9.  $3 \overline{)\$14\ 025}$     (a) \$4675        (b) \$4605        (c) \$4008        (d) \$475      9. \_\_\_\_\_
10.  $20 \overline{)1320}$       (a) 660          (b) 66          (c) 606          (d) 211      10. \_\_\_\_\_
11.  $60 \overline{)12\ 345}$     (a) 205 R45    (b) 25 R45    (c) 250 R45    (d) 205      11. \_\_\_\_\_
12.  $3 \overline{)1224}$       (a) 48          (b) 411 R1    (c) 480          (d) 408      12. \_\_\_\_\_
13.  $84 \overline{)597}$         (a) 70 R9        (b) 6 R93        (c) 7 R11        (d) 7 R9      13. \_\_\_\_\_
14.  $5 \overline{)35\ 200}$     (a) 74          (b) 7040        (c) 740          (d) 704      14. \_\_\_\_\_
15.  $43 \overline{)39\ 184}$     (a) 911 R11    (b) 939 R33    (c) 911          (d) 901 R41    15. \_\_\_\_\_
16. Julius has a loom for making pot holders. Each pot holder requires 36 loops. Julius buys a bag of 1600 loops. How many pot holders can he make? How many loops, if any, will be left over?  
(a) 44 R16    (b) 40          (c) 44 R6      (d) 4 R16      16. \_\_\_\_\_
17. 5 brothers and sisters want to buy a dog for \$302.95. They agree to share the cost equally. How much should each one pay?  
(a) \$6.59      (b) \$60.51      (c) \$60.59      (d) \$30.29      17. \_\_\_\_\_
18. 2520 pictures can be taken with 70 rolls of the same film. How many pictures can be taken with one roll?  
(a) 2450        (b) 36          (c) 30          (d) 360      18. \_\_\_\_\_

Each small cube represents a cubic centimetre. Give the volume in cubic centimetres.

1. \_\_\_\_\_



2. Find how many centimetre cubes will fill this rectangular prism.



1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_

Give the number that completes each sentence.

3.  $3000 \text{ mL} = \underline{\hspace{1cm}} \text{ L}$

4.  $5.67 \text{ L} = \underline{\hspace{1cm}} \text{ mL}$

5.  $1.27 \text{ kg} = \underline{\hspace{1cm}} \text{ g}$

6.  $8750 \text{ g} = \underline{\hspace{1cm}} \text{ kg}$

7.  $538 \text{ cm}^3$  take the same space as  $\underline{\hspace{1cm}} \text{ mL}$ .

8.  $1.27 \text{ L}$  take the same space as  $\underline{\hspace{1cm}} \text{ cm}^3$ .

9. The mass of  $\underline{\hspace{1cm}} \text{ L}$  of water is  $10 \text{ kg}$ .

10. The mass of  $320 \text{ mL}$  of water is  $\underline{\hspace{1cm}} \text{ g}$ .

For this 24-hour clock,



11. write the time shown if it is before noon.

12. Write the time shown if it is afternoon.

13. Write the time it would be 2 h 25 min 18 s earlier in the afternoon.

Complete.

14. The date June 13, 1983 may also be shown as 1983 \_\_\_\_\_ .

15. The date 1980 10 09 may also be shown as \_\_\_\_\_ , 1980.

Choose the correct answer.

For exercises 1 to 3, each cube shown represents a cubic centimetre.

1. \_\_\_\_\_

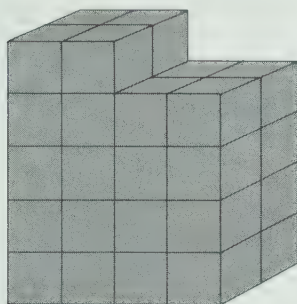
2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

1. Which is the volume in cubic centimetres?



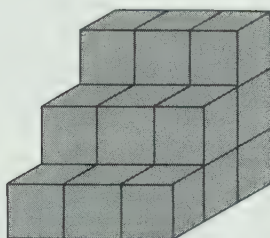
Ⓐ 25

Ⓑ 32

Ⓒ 36

Ⓓ 40

2. Which is the volume in cubic centimetres?



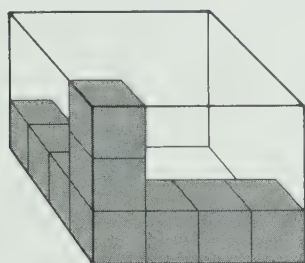
Ⓐ 24

Ⓑ 9

Ⓒ 18

Ⓓ 15

3. Which is the volume of the rectangular prism in cubic centimetres?



Ⓐ 9

Ⓑ 16

Ⓒ 64

Ⓓ 48

Which is the best estimate for each measurement?

4. the capacity of a drinking glass

Ⓐ 1 mL

Ⓑ 300 L

Ⓒ 1 L

Ⓓ 300 mL

5. the mass of a paper clip

Ⓐ 10 kg

Ⓑ 1 kg

Ⓒ 1 g

Ⓓ 500 g

6. the capacity of a can of motor oil 6. \_\_\_\_\_  
    Ⓐ 1 mL      Ⓑ 1 L      Ⓒ 100 L      Ⓓ 500 L 7. \_\_\_\_\_
7. the mass of a pair of children's running shoes 8. \_\_\_\_\_  
    Ⓐ 10 kg      Ⓑ 500 g      Ⓒ 1 g      Ⓓ 5 kg 9. \_\_\_\_\_
8. the capacity of an eye dropper 10. \_\_\_\_\_  
    Ⓐ 1 mL      Ⓑ 500 mL      Ⓒ 1 L      Ⓓ 500 L 11. \_\_\_\_\_
9. the mass of a full carton of milk 12. \_\_\_\_\_  
    Ⓐ 10 kg      Ⓑ 1 kg      Ⓒ 500 g      Ⓓ 1 g 13. \_\_\_\_\_
10. 300 mL = \_\_\_\_\_ L 14. \_\_\_\_\_  
    Ⓐ 0.3      Ⓑ 3      Ⓒ 300 000      Ⓓ 0.03 15. \_\_\_\_\_
11. 0.7 kg = \_\_\_\_\_ g 16. \_\_\_\_\_  
    Ⓐ 0.0007      Ⓑ 70      Ⓒ 700      Ⓓ 7000 17. \_\_\_\_\_
12. 6480 mL = \_\_\_\_\_ L 18. \_\_\_\_\_  
    Ⓐ 648      Ⓑ 64.8      Ⓒ 6.48      Ⓓ 0.648 19. \_\_\_\_\_
13. 7.46 kg = \_\_\_\_\_ g  
    Ⓐ 7460      Ⓑ 746      Ⓒ 74.6      Ⓓ 0.746
14. 1030 g = \_\_\_\_\_ kg  
    Ⓐ 0.103      Ⓑ 1.03      Ⓒ 10.3      Ⓓ 103
15. 5.91 L = \_\_\_\_\_ mL  
    Ⓐ 0.591      Ⓑ 59.1      Ⓒ 591      Ⓓ 5910
16. 347 mL take the same space as how many cubic centimetres?  
    Ⓐ 0.347      Ⓑ 3.47      Ⓒ 34.7      Ⓓ 347
17. 1589 cm<sup>3</sup> take the same space as how many litres?  
    Ⓐ 1.589      Ⓑ 15.89      Ⓒ 158.9      Ⓓ 1589
18. 1400 mL take the same space as how many cubic centimetres?  
    Ⓐ 1.4      Ⓑ 14      Ⓒ 140      Ⓓ 1400
19. 3.6 L take the same space as how many cubic centimetres?  
    Ⓐ 3.6      Ⓑ 0.0036      Ⓒ 360      Ⓓ 3600

20. 600 cm<sup>3</sup> take the same space as how many millilitres?

- (a) 600      (b) 6000      (c) 0.6      (d) 600 000

20. \_\_\_\_\_

21. \_\_\_\_\_

21. 5302 cm<sup>3</sup> take the same space as how many litres?

- (a) 5.302      (b) 5302      (c) 5 302 000      (d) 530.2

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

22. Which is the mass of 2.56 L of water?

- (a) 2560 kg      (b) 256 g      (c) 2560 g      (d) 25.6 kg

25. \_\_\_\_\_

26. \_\_\_\_\_

27. \_\_\_\_\_

23. 3170 g is the mass of how many millilitres of water?

- (a) 3170      (b) 317      (c) 31.7      (d) 3.17

24. Which is the mass of 1750 mL of water?

- (a) 1.750 g      (b) 1750 g      (c) 1 750 000 g      (d) 175 g

25. Which time is shown on the clock if it is before noon?



- (a) 02:20:30      (b) 16:10:30      (c) 04:30:10      (d) 04:10:30

26. Which time is it 5 h 7 min 22 s after 11:15:36?

- (a) 16:08:14      (b) 06:08:14      (c) 06:22:58      (d) 16:22:58

27. Which is another way to show the date Sept. 8, 1984?

- (a) 1984 08 08      (b) 1984 09 08      (c) 1984 08 09      (d) 08 08 1984

28. Which time is shown on the clock if it is after noon?



28. \_\_\_\_\_

29. \_\_\_\_\_

30. \_\_\_\_\_

31. \_\_\_\_\_

32. \_\_\_\_\_

33. \_\_\_\_\_

(a) 02:20:30

(b) 04:10:30

(c) 16:10:30

(d) 16:30:10

29. Mark started doing yard work at 10:27:24 and finished 2 h 9 min and 12 s later. When did he finish?

(a) 08:18:12

(b) 01:36:36

(c) 12:26:36

(d) 12:36:36

30. Which is another way to show the date 1946 10 01?

(a) Jan. 10, 1946

(b) Oct. 10, 1946

(c) Oct. 1, 1946

(d) Dec. 1, 1946

31. Which time would be a most likely time for eating breakfast?

(a) 07:30:00

(b) 19:30:00

(c) 30:07:00

(d) 00:30:07

32. Michael started work at 08:20:10 and finished at 15:30:20. How long did he work?

(a) 23 h 50 min 30 s

(b) 7 h 10 min 10 s

(c) 7 h 50 min 30 s

(d) 7 h 10 min 30 s

33. Which is another way to show the date May 3, 1978?

(a) 1978 03 05

(b) 1978 05 03

(c) 03 05 1978

(d) 8791 05 03

Divide.

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

1.  $2 \overline{)8.6}$

2.  $3 \overline{)7.8}$

3.  $2 \overline{)5.6}$

4.  $5 \overline{)32.35}$

5.  $7 \overline{)58.45}$

6.  $4 \overline{)22.768}$

7.  $9 \overline{)54.756}$

8.  $8 \overline{)5.84}$

9.  $6 \overline{)2.34}$

10.  $4 \overline{)3}$

11.  $6 \overline{)2.7}$

12.  $8 \overline{)21.88}$

Divide.

13. \_\_\_\_\_

14. \_\_\_\_\_

13.  $5 \overline{) \$41.75}$

14.  $7 \overline{) \$5.04}$

15.  $5 \overline{) \$48}$

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

Solve.

16. 6 children playing ball broke a window costing \$40.32. To share the cost equally, how much would each child have to pay?

17. 6 cans of Brand A peas sell for \$4.08. 8 cans of Brand B peas sell for \$5.20. Which is the better buy?

18. The perimeter of a square is 15.2 m. What is the length of one side?

19. The area of a rectangle is  $62 \text{ cm}^2$ . The length is 8 cm. What is the width?

20. 3 boxes of equal size have a total mass of 19.47 kg. What is the mass of each box?

21. 5 shirts cost \$92.95. What is the average cost per shirt?

22.  $29 \overline{) 74.53}$

23.  $34 \overline{) 32.3}$

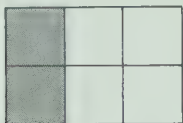
24.  $87 \overline{) \$172.26}$

Choose the correct answer.

- |                            |            |            |             |            |           |
|----------------------------|------------|------------|-------------|------------|-----------|
| 1. $4 \overline{)14.8}$    | (a) 37     | (b) 1.2    | (c) 3.7     | (d) 41.2   | 1. _____  |
| 2. $3 \overline{)2.238}$   | (a) 7.046  | (b) 0.746  | (c) 74.6    | (d) 7.46   | 2. _____  |
| 3. $5 \overline{)14.8}$    | (a) 2.96   | (b) 2.9 R3 | (c) 2.9     | (d) 296    | 3. _____  |
| 4. $8 \overline{)64.72}$   | (a) 8.9    | (b) 8.09   | (c) 0.89    | (d) 89     | 4. _____  |
| 5. $8 \overline{)5.4}$     | (a) 6 R6   | (b) 0.7    | (c) 0.675   | (d) 6.75   | 5. _____  |
| 6. $72 \overline{)681.84}$ | (a) 9.74   | (b) 94.7   | (c) 9.52    | (d) 9.47   | 6. _____  |
| 7. $9 \overline{)6.57}$    | (a) 73     | (b) 0.073  | (c) 7.3     | (d) 0.73   | 7. _____  |
| 8. $6 \overline{)\$50.58}$ | (a) \$8.43 | (b) \$8.48 | (c) \$84.03 | (d) \$843  | 8. _____  |
| 9. $7 \overline{)\$6.09}$  | (a) \$87   | (b) \$0.87 | (c) \$8.70  | (d) 0.81   | 9. _____  |
| 10. $28 \overline{)\$119}$ | (a) \$3.96 | (b) \$425  | (c) \$4.35  | (d) \$4.25 | 10. _____ |
| 11. $4 \overline{)7.1}$    | (a) 1.775  | (b) 17.75  | (c) 1.4     | (d) 1.7 R3 | 11. _____ |
| 12. $24 \overline{)73.44}$ | (a) 3.6    | (b) 306    | (c) 3.06    | (d) 3.66   | 12. _____ |
13. The perimeter of a square is 3 km. Which is the length of one side?  
 (a) 12 km      (b) 0.75 km      (c) 7.5 km      (d) 9 km
14. Together 7 pitchers are holding 4.83 L of milk. Which is the average amount of milk in each pitcher?  
 (a) 69 L      (b) 6.9 L      (c) 0.69 L      (d) 0.069 L
15. 5 kg of red potatoes cost \$2.40. 10 kg of white potatoes cost \$4.20. Which is a better buy?  
 (a) white at \$0.48 per kg      (b) red at \$0.42 per kg  
 (c) red at \$0.48 per kg      (d) white at \$0.42 per kg

Write two equivalent fractions for the picture.

1.



Write two fractions that are equivalent to each of these.

2.  $\frac{5}{8}$

3.  $\frac{3}{15}$

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

21. \_\_\_\_\_

Find the missing term in each pair of equivalent fractions.

4.  $\frac{3}{7} = \frac{\blacksquare}{21}$

5.  $\frac{5}{6} = \frac{\blacksquare}{30}$

Use  $>$ ,  $<$ , or  $=$  to make true statements.

6.  $\frac{2}{3} \bigcirc \frac{5}{9}$

7.  $\frac{2}{8} \bigcirc \frac{6}{24}$

Write each of these as an improper fraction.

8.  $3\frac{5}{6}$

9.  $5\frac{4}{5}$

Write each of these as a number in mixed form.

10.  $\frac{37}{12}$

11.  $\frac{51}{8}$

Write each of these as a decimal.

12.  $\frac{4}{5}$

13.  $\frac{25}{8}$

Find

14.  $\frac{3}{4}$  of 36.

15.  $\frac{2}{5}$  of 60.

Add.

16. 
$$\begin{array}{r} 10\frac{2}{6} \\ + 1\frac{3}{6} \\ \hline \end{array}$$

17. 
$$\begin{array}{r} 4\frac{7}{8} \\ + 6\frac{5}{8} \\ \hline \end{array}$$

18.  $5\frac{2}{5} + 7\frac{3}{5} = \underline{\hspace{2cm}}$

Subtract.

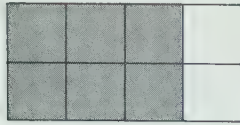
19. 
$$\begin{array}{r} 4\frac{7}{10} \\ - 3\frac{3}{10} \\ \hline \end{array}$$

20. 
$$\begin{array}{r} 9\frac{3}{5} \\ - 7\frac{4}{5} \\ \hline \end{array}$$

21.  $7 - 4\frac{5}{12} = \underline{\hspace{2cm}}$

Choose the correct answer.

1. Which are two equivalent fractions that show how much is shaded?



- (a)  $\frac{2}{8}$  and  $\frac{1}{4}$       (b)  $\frac{6}{8}$  and  $\frac{1}{4}$       (c)  $\frac{6}{8}$  and  $\frac{3}{4}$       (d)  $\frac{2}{8}$  and  $\frac{3}{4}$

2. Which two fractions are equivalent to
- $\frac{3}{9}$
- ?

- (a)  $\frac{2}{8}$  and  $\frac{4}{10}$       (b)  $\frac{18}{54}$  and  $\frac{12}{27}$       (c)  $\frac{6}{18}$  and  $\frac{12}{32}$       (d)  $\frac{1}{3}$  and  $\frac{9}{27}$

3. Which is the missing term from
- $\frac{7}{8} = \frac{49}{\blacksquare}$
- ?

- (a) 392      (b) 64      (c) 7      (d) 56

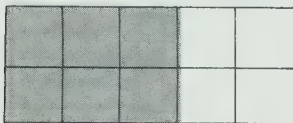
4. Which is a true statement?

- (a)  $\frac{3}{5} < \frac{2}{3}$       (b)  $\frac{6}{7} = \frac{18}{28}$       (c)  $\frac{4}{9} < \frac{2}{6}$       (d)  $\frac{5}{8} < \frac{7}{12}$

5. How much is
- $\frac{5}{8}$
- of 72?

- (a) 9      (b) 40      (c) 45      (d) 360

6. Which are two equivalent fractions that show how much is shaded?



- (a)  $\frac{4}{10}$  and  $\frac{2}{5}$       (b)  $\frac{6}{10}$  and  $\frac{3}{5}$       (c)  $\frac{6}{10}$  and  $\frac{2}{5}$       (d)  $\frac{4}{6}$  and  $\frac{2}{3}$

7. Which two fractions are equivalent to
- $\frac{3}{4}$
- ?

- (a)  $\frac{9}{16}$  and  $\frac{27}{64}$       (b)  $\frac{6}{7}$  and  $\frac{9}{10}$       (c)  $\frac{6}{8}$  and  $\frac{9}{12}$       (d)  $\frac{6}{8}$  and  $\frac{9}{16}$

8. Which is the missing term from
- $\frac{3}{7} = \frac{\blacksquare}{28}$
- ?

- (a) 24      (b) 7      (c) 16      (d) 12

9. Which is a true statement?

- (a)  $\frac{2}{3} = \frac{4}{9}$       (b)  $\frac{2}{3} < \frac{4}{9}$       (c)  $\frac{2}{3} < \frac{4}{6}$       (d)  $\frac{2}{3} > \frac{4}{9}$

10. How much is  $\frac{2}{5}$  of 30?

(a) 6

(b) 60

(c) 8

(d) 12

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

11. Which two fractions are equivalent to  $\frac{16}{24}$ ?(a)  $\frac{4}{6}$  and  $\frac{2}{3}$ (b)  $\frac{4}{8}$  and  $\frac{1}{2}$ (c)  $\frac{8}{12}$  and  $\frac{2}{6}$ (d)  $\frac{12}{20}$  and  $\frac{8}{16}$ 

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

12. Which is a true statement?

(a)  $\frac{3}{4} < \frac{4}{5}$ (b)  $\frac{3}{4} > \frac{4}{5}$ (c)  $\frac{6}{8} > \frac{3}{4}$ (d)  $\frac{4}{5} < \frac{3}{5}$ 

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

13. How much is  $\frac{4}{9}$  of 45?

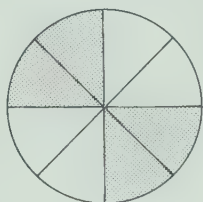
(a) 36

(b) 20

(c) 5

(d) 180

14. Which are two equivalent fractions that show how much is shaded?

(a)  $\frac{2}{4}$  and  $\frac{1}{2}$ (b)  $\frac{4}{8}$  and  $\frac{1}{4}$ (c)  $\frac{2}{8}$  and  $\frac{1}{4}$ (d)  $\frac{4}{8}$  and  $\frac{2}{8}$ 15. Which is the missing term from  $\frac{4}{9} = \frac{\blacksquare}{36}$ ?

(a) 81

(b) 16

(c) 8

(d) 1

16.  $4\frac{5}{6} =$  \_\_\_\_\_(a)  $\frac{9}{6}$ (b)  $\frac{24}{6}$ (c)  $\frac{29}{6}$ (d)  $\frac{45}{6}$ 17.  $\frac{55}{8} =$  \_\_\_\_\_(a)  $55\frac{1}{8}$ (b)  $50\frac{5}{8}$ (c)  $6\frac{7}{8}$ (d)  $5\frac{5}{8}$ 18.  $\frac{27}{8} =$  \_\_\_\_\_

(a) 3.3

(b) 3.375

(c) 2.78

(d) 2.875

19.  $\frac{21}{4} =$  \_\_\_\_\_(a)  $2\frac{1}{4}$ (b)  $20\frac{1}{4}$ (c)  $\frac{5}{4}$ (d)  $5\frac{1}{4}$

20.  $3\frac{2}{5} =$  \_\_\_\_\_

(a)  $\frac{11}{5}$

(b)  $\frac{16}{5}$

(c)  $\frac{17}{5}$

(d)  $\frac{13}{5}$

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

21.  $\frac{4}{5} =$  \_\_\_\_\_

(a) 1.25

(b) 0.4

(c) 0.8

(d) 0.5

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

22.  $\frac{25}{4} =$  \_\_\_\_\_

(a) 6.25

(b) 4.25

(c) 0.16

(d) 2.54

26. \_\_\_\_\_

27. \_\_\_\_\_

28. \_\_\_\_\_

29. \_\_\_\_\_

23.  $1\frac{3}{4} =$  \_\_\_\_\_

(a)  $\frac{13}{4}$

(b)  $\frac{7}{4}$

(c)  $\frac{15}{4}$

(d)  $\frac{8}{4}$

30. \_\_\_\_\_

24.  $\frac{27}{8} =$  \_\_\_\_\_

(a)  $3\frac{3}{8}$

(b)  $2\frac{7}{8}$

(c)  $20\frac{7}{8}$

(d)  $3\frac{8}{3}$

25.  $4\frac{2}{3} + 1\frac{1}{3}$

(a)  $3\frac{1}{3}$

(b)  $5\frac{3}{6}$

(c) 5

(d) 6

26.  $7\frac{3}{8} - 4\frac{4}{8}$

(a)  $2\frac{7}{8}$

(b)  $2\frac{9}{8}$

(c)  $3\frac{1}{8}$

(d)  $3\frac{7}{8}$

27.  $6\frac{4}{9} + 7\frac{8}{9}$

(a)  $13\frac{2}{9}$

(b)  $13\frac{12}{9}$

(c)  $13\frac{12}{18}$

(d)  $14\frac{3}{9}$

28.  $1\frac{2}{5} + 6\frac{4}{5}$

(a)  $7\frac{6}{10}$

(b)  $8\frac{1}{5}$

(c)  $7\frac{6}{5}$

(d)  $7\frac{1}{5}$

29.  $4 - 2\frac{3}{7}$

(a)  $1\frac{3}{7}$

(b)  $1\frac{4}{7}$

(c)  $2\frac{3}{7}$

(d)  $2\frac{4}{7}$

30.  $5\frac{2}{5} - 3\frac{3}{5}$

(a)  $1\frac{9}{5}$

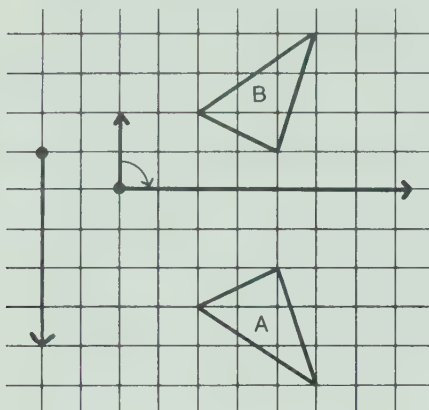
(b)  $2\frac{1}{5}$

(c)  $1\frac{4}{5}$

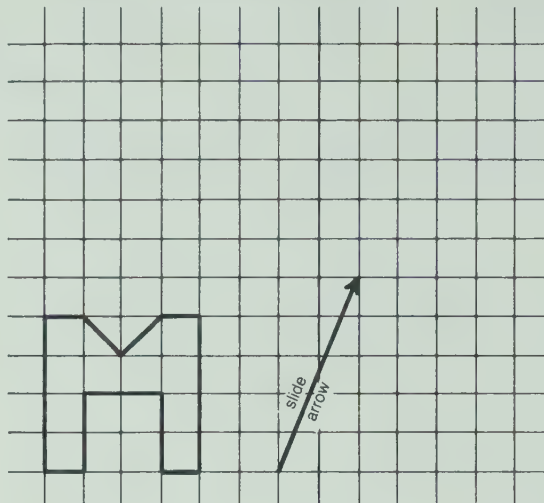
(d) 9

Use tracing paper for Exercises 1-5.

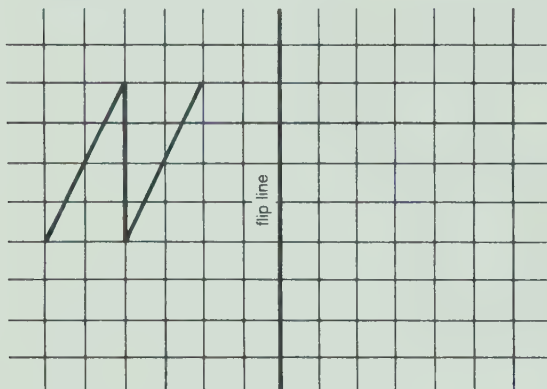
1. Is shape A a slide, flip, or turn image of shape B, or none of these?



2. Draw the slide image.



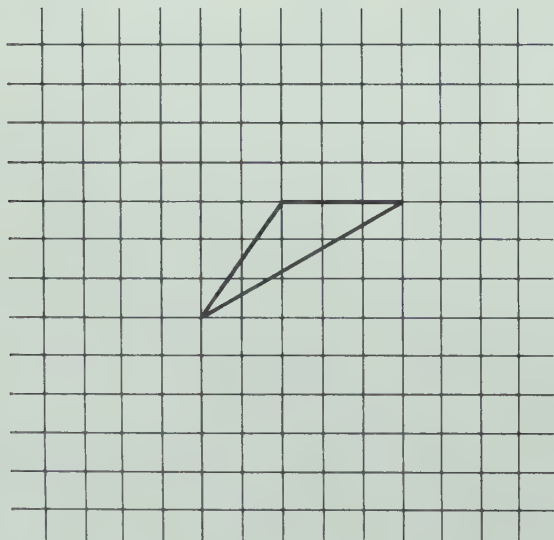
3. Draw the flip image.



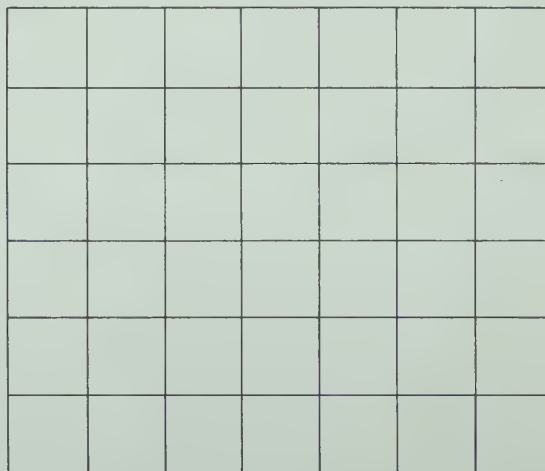
4. Use turns of this triangle to build a polygon. C is the turn centre.



5. Draw a pattern that leaves no spaces. Use the triangle at least 6 times in your pattern.



6. Copy the triangle of Exercise 5 onto this grid.



1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. Use  
   grids.  
5. \_\_\_\_\_  
6. \_\_\_\_\_

Choose the correct answer.

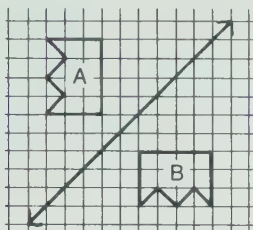
1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

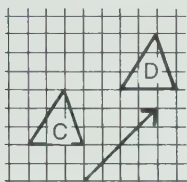
4. \_\_\_\_\_

1. How are these shapes related?



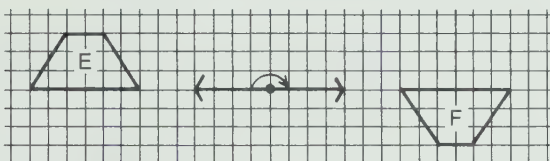
- Ⓐ slide image    Ⓑ flip image    Ⓒ turn image    Ⓓ not related

2. How are these shapes related?



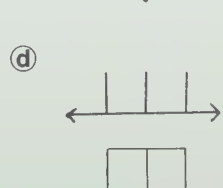
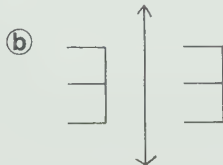
- Ⓐ slide image    Ⓑ flip image    Ⓒ turn image    Ⓓ not related

3. How are these shapes related?



- Ⓐ slide image    Ⓑ flip image    Ⓒ turn image    Ⓓ not related

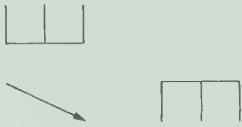
4. Which shows the shape and its flip image for the given flip line?



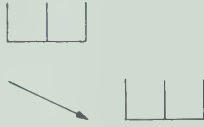
5. Which shows the shape and its slide image for the given slide arrow?

5. \_\_\_\_\_

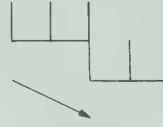
(a)



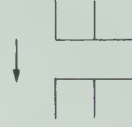
(b)



(c)



(d)

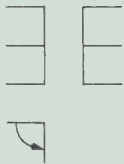


6. \_\_\_\_\_

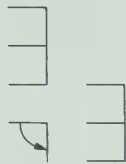
7. \_\_\_\_\_

6. Which shows the shape and its turn image for the given turn angle?

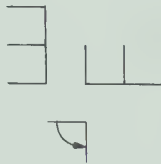
(a)



(b)



(c)

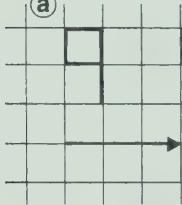


(d)



7. Which shows the shape and its slide image for the given slide arrow?

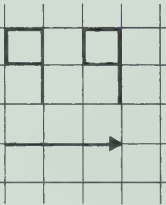
(a)



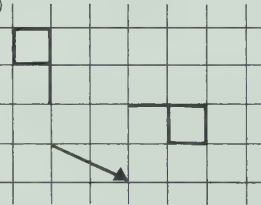
(b)



(c)



(d)



8. Which shows the shape and its turn image for the given turn angle?

8. \_\_\_\_\_

9. \_\_\_\_\_

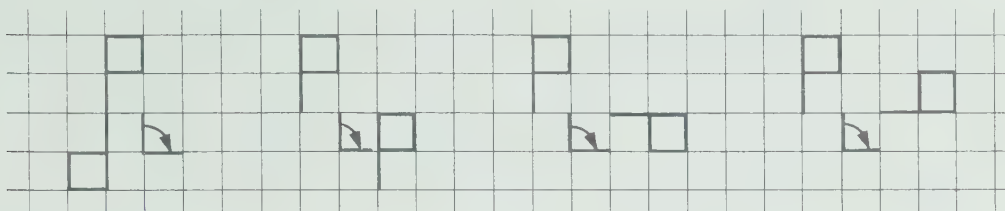
10. \_\_\_\_\_

(a)

(b)

(c)

(d)



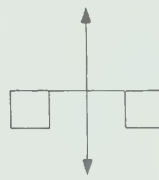
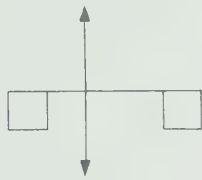
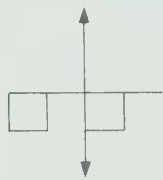
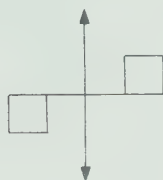
9. Which shows the shape and its flip image for the given flip line?

(a)

(b)

(c)

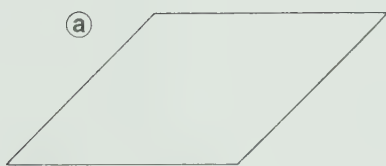
(d)



10. Which shape could be used to make the tiling pattern shown?



(a)



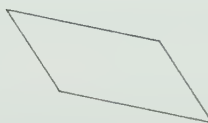
(b)



(c)



(d)

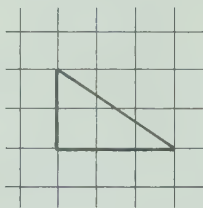


11. Which shape is a copy of this shape using a different grid?

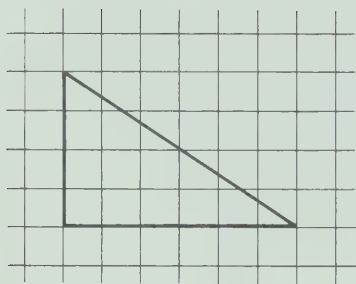
11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_



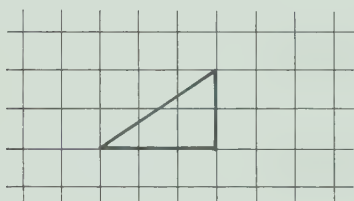
(a)



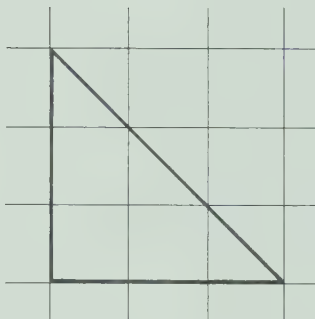
(b)



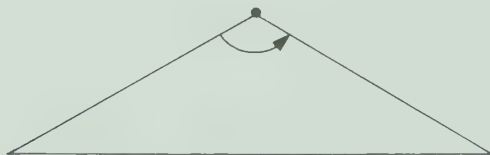
(c)



(d)



12. When this shape is turned twice to build a polygon, which is the result?



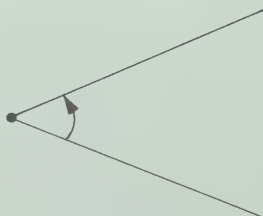
(a) quadrilateral

(b) hexagon

(c) triangle

(d) pentagon

13. When this shape is turned with the given centre and turn angle, which polygon is formed?



(a) triangle

(b) octagon

(c) hexagon

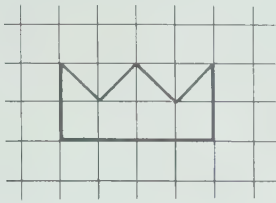
(d) pentagon

14. Which shape is a copy of this shape using a different grid?

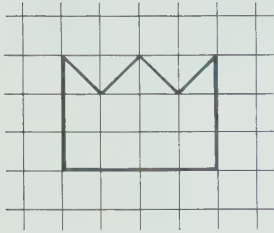
14. \_\_\_\_\_

15. \_\_\_\_\_

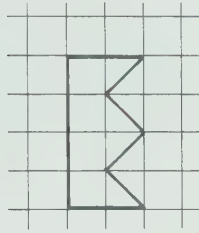
16. \_\_\_\_\_



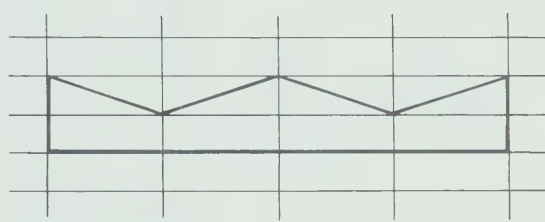
(a)



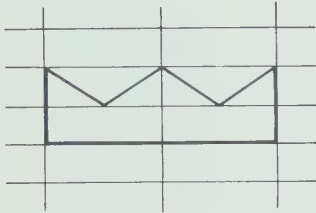
(b)



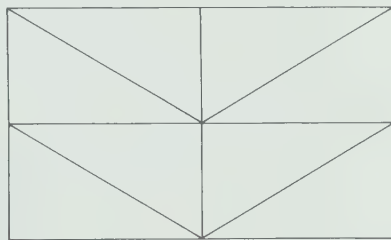
(c)



(d)



15. Which shape could be used to make the tiling pattern shown?



(a)



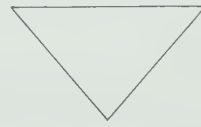
(b)



(c)



(d)



16. When this shape is turned to build a polygon, which is the result?



(a) a square

(b) a pentagon

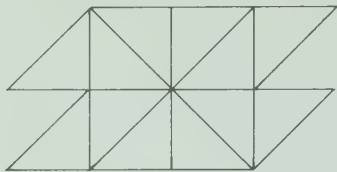
(c) a hexagon

(d) an octagon

17. Which shape is used to make the pattern shown?

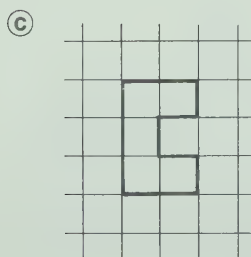
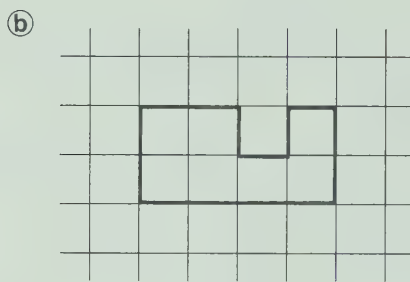
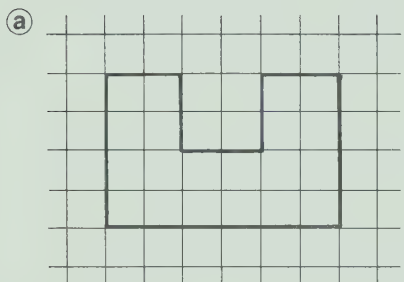
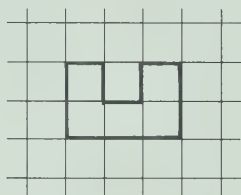
17. \_\_\_\_\_

18. \_\_\_\_\_



Ⓓ either Ⓐ or Ⓑ

18. Which shape is a copy of this shape using a different grid?



Write as a ratio or rate in another way.

1. 7 out of 8

2. 2 to 3

3. 5 in 9

4. Tom ate 5 peanuts. Susie ate 7 peanuts.

5. Solve 15 problems in 3 minutes.

Complete.

6.  $\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$

7.  $\frac{4}{7} = \frac{\square}{28}$

8.  $\frac{8}{10} = \frac{4}{\square}$

9.  $\frac{7}{15} = \frac{\square}{45}$

10.  $\frac{4}{6} = \frac{18}{\square}$

11.  $\frac{3}{30} = \frac{\square}{80}$

12.  $\frac{6}{18} = \frac{\square}{57}$

Write as a percent.

13. 79:100

14. 0.07

15.  $\frac{3}{5}$ 

16. 3 of the 4 fish were salmon.

17. 9 out of 10 students brush their teeth daily.

Solve.

18. 3 boxes of cereal cost \$2.  
How much do 12 boxes cost?

19. On a map, 1 cm represents 50 km. The distance between two towns is 6 cm. What is the real distance between the 2 towns?

20. Sheila hiked 160 km in 4 d. At this rate, how far would she hike in 7 d?

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

20. \_\_\_\_\_

Choose the correct answer.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_

1. Which is another way to express "6 out of 18" as a ratio?

- (a) 18:6      (b)  $\frac{18}{6}$       (c) 6:18      (d) 3

2. Which completes the pattern,  $\frac{3}{5}, \frac{6}{10}, \frac{9}{15}, \frac{\blacksquare}{\blacksquare}, \frac{\blacksquare}{\blacksquare}, \frac{\blacksquare}{\blacksquare}?$ 

- (a)  $\frac{15}{20}, \frac{20}{25}, \frac{25}{30}$       (b)  $\frac{12}{20}, \frac{15}{25}, \frac{18}{30}$       (c)  $\frac{12}{20}, \frac{16}{25}, \frac{20}{30}$       (d)  $\frac{12}{18}, \frac{15}{21}, \frac{18}{24}$

3. Which is the missing term from  $\frac{12}{16} = \frac{60}{\blacksquare}?$ 

- (a) 80      (b) 76      (c) 64      (d) 960

4. Which is the missing term from  $\frac{6}{15} = \frac{16}{\blacksquare}?$ 

- (a) 40      (b) 240      (c) 25      (d) 45

5. Which shows 20:25 as a percent?

- (a) 20%      (b) 25%      (c) 75%      (d) 80%

6. Which is another way to express "7 to 10" as a ratio?

- (a) 3      (b)  $\frac{10}{7}$       (c) 7:17      (d) 7:10

7. Which completes the table?

metres	6	9	12		
seconds	2	3	4		

(a) 

15	18
8	12

(b) 

24	36
5	6

(c) 

15	20
5	6

(d) 

15	18
5	6

8. Which is the missing term from  $\frac{18}{42} = \frac{\blacksquare}{7}?$ 

- (a) 6      (b) 3      (c) 126      (d) 11

9. Which is the missing term from  $\frac{12}{30} = \frac{\blacksquare}{25}?$ 

- (a) 7      (b) 300      (c) 62.5      (d) 10

10. Which shows 0.03 as a percent?

- (a) 3%      (b) 30%      (c) 0.03%      (d) 0.3%

11. Which is another way to express "2 out of 8" as a ratio?

- (a)  $\frac{2}{8}$       (b) 8:2      (c) 4      (d)  $\frac{8}{2}$

12. Which completes the pattern  $\frac{5}{4}, \frac{10}{8}, \frac{\blacksquare}{\blacksquare}, \frac{\blacksquare}{\blacksquare}$ ? 12. \_\_\_\_\_
- (a)  $\frac{100}{64}, \frac{10\,000}{4096}$  (b)  $\frac{15}{12}, \frac{16}{20}$  13. \_\_\_\_\_
- (c)  $\frac{15}{12}, \frac{20}{16}$  (d)  $\frac{20}{16}, \frac{40}{24}$  14. \_\_\_\_\_
13. Which shows 1 out of 4 as a percent? 15. \_\_\_\_\_
- (a) 14% (b) 25% (c) 1% (d) 10% 16. \_\_\_\_\_
14. Which is the missing term from  $\frac{9}{12} = \frac{\blacksquare}{28}$ ? 17. \_\_\_\_\_
- (a) 25 (b) 252 (c) 21 (d) 18 18. \_\_\_\_\_
15. Which is the missing term from 5 for \$2 = 15 for \$  $\blacksquare$  ?
- (a) \$6 (b) \$8 (c) \$30 (d) \$4
16. Mrs. Bannon drove 150 km in 2 h. At this rate, how far would she drive in 6 h?
- (a) 300 km (b) 450 km (c) 600 km (d) 75 km
17. On a map, 1 cm represents 15 km. Mr. Eduardo wants to drive about 750 km in one day. How many centimetres would this be on the map?
- (a) 75 (b) 5 (c) 50 (d) 11 250
18. On a test, Joy's mark was 16 out of 20. What percent did she get right?
- (a) 16% (b) 20% (c) 80% (d) 96%

Choose the correct answer.

1. Which is the greatest?

- (a) 206 908    (b) 206 098    (c) 206 890    (d) 206 980

2. Which shows 704 943 rounded to the nearest thousand?

- (a) 705 943    (b) 704 000    (c) 705 000    (d) 700 000

3. Which is the greatest?

- (a) 4.08    (b) 4.028    (c) 4.082    (d) 4.2

4. Which is a true statement?

- (a)  $36\,029 > 36\,209$                       (b)  $36\,902 < 36\,290$   
(c)  $36\,029 < 36\,209$                       (d)  $36\,029 > 36\,092$

5. Which is the least?

- (a) 9.99    (b) 9.09    (c) 9.909    (d) 9.099

6. Which shows 685 394 rounded to the nearest ten thousand?

- (a) 685 390    (b) 685 000    (c) 680 394    (d) 690 000

7. Which is a true statement?

- (a)  $808\,080 > 880\,088$                       (b)  $880\,088 < 808\,880$   
(c)  $880\,808 < 808\,880$                       (d)  $808\,880 > 808\,080$

8. Which shows 74 149 rounded to the nearest hundred?

- (a) 74 150    (b) 74 100    (c) 74 200    (d) 74 000

9. Which is a true statement?

- (a)  $2.7 > 2.075$                       (b)  $2.75 < 2.705$   
(c)  $2.07 > 2.075$                       (d)  $2.705 < 2.075$

10. 
$$\begin{array}{r} 392 \\ + 256 \\ \hline \end{array}$$
    (a) 136    (b) 548    (c) 146    (d) 648

11. 
$$\begin{array}{r} 658 \\ - 393 \\ \hline \end{array}$$
    (a) 265    (b) 1051    (c) 365    (d) 941

12.	$\begin{array}{r} 64 \\ \times 38 \\ \hline \end{array}$	(a) 102	(b) 704	(c) 2302	(d) 2432	12. _____
13.	$7 \overline{)1463}$	(a) 29	(b) 209	(c) 229	(d) 10 241	13. _____
14.	$\begin{array}{r} 5.5 \\ + 2.9 \\ \hline \end{array}$	(a) 2.6	(b) 8.4	(c) 7.4	(d) 84	14. _____
15.	$\begin{array}{r} 9.1 \\ - 7.8 \\ \hline \end{array}$	(a) 13	(b) 16.9	(c) 1.3	(d) 169	15. _____
16.	$\begin{array}{r} 5.397 \\ \times 8 \\ \hline \end{array}$	(a) 43.176	(b) 431.76	(c) 43 176	(d) 13.397	16. _____
17.	$3 \overline{)7.8}$	(a) 26	(b) 22 R2	(c) 2.6	(d) 2.2 R2	17. _____
18.	$4\frac{3}{8} + 5\frac{1}{8}$	(a) $9\frac{5}{8}$	(b) $10\frac{4}{8}$	(c) $9\frac{4}{8}$	(d) $9\frac{4}{16}$	18. _____
19.	$12\frac{7}{9} - 8\frac{5}{9}$	(a) $4\frac{2}{9}$	(b) $21\frac{3}{9}$	(c) $4\frac{2}{18}$	(d) $21\frac{1}{3}$	19. _____
20.	$\begin{array}{r} 8473 \\ + 2844 \\ \hline \end{array}$	(a) 11 317	(b) 10 217	(c) 5629	(d) 11 217	20. _____
21.	$\begin{array}{r} 3136 \\ - 282 \\ \hline \end{array}$	(a) 3418	(b) 3954	(c) 2854	(d) 3854	21. _____
22.	$6 \overline{)5097}$	(a) 811 R1	(b) 849 R3	(c) 648 R3	(d) 30 582	22. _____
23.	$\begin{array}{r} 39.85 \\ + 34.18 \\ \hline \end{array}$	(a) 5.67	(b) 63.93	(c) 63.03	(d) 74.03	23. _____
24.	$\begin{array}{r} 295 \\ \times 70 \\ \hline \end{array}$	(a) 1435	(b) 2065	(c) 14 350	(d) 20 650	24. _____
25.	$\begin{array}{r} 30.05 \\ - 25.36 \\ \hline \end{array}$	(a) 4.69	(b) 55.41	(c) 15.39	(d) 15.31	25. _____
26.	$8 \overline{)6.36}$	(a) 7 R6	(b) 79 R4	(c) 0.36	(d) 0.795	26. _____
27.	$\begin{array}{r} 3.7 \\ \times 4.9 \\ \hline \end{array}$	(a) 8.6	(b) 181.3	(c) 18.13	(d) 4.81	27. _____
28.	$7\frac{4}{9} + 2\frac{7}{9}$	(a) $9\frac{11}{9}$	(b) $9\frac{2}{9}$	(c) $9\frac{11}{18}$	(d) $10\frac{2}{9}$	28. _____

29.  $6\frac{2}{5} - 4\frac{3}{5}$     (a)  $2\frac{1}{5}$     (b)  $2\frac{4}{5}$     (c)  $1\frac{4}{5}$     (d) 11    29. \_\_\_\_\_
30. 
$$\begin{array}{r} 4874 \\ 654 \\ + 2793 \\ \hline \end{array}$$
    (a) 6111    (b) 8321    (c) 7211    (d) 8211    30. \_\_\_\_\_
31. 
$$\begin{array}{r} 30400 \\ - 1877 \\ \hline \end{array}$$
    (a) 39 633    (b) 28 523    (c) 28 677    (d) 32 277    31. \_\_\_\_\_
32. 
$$\begin{array}{r} 1.725 \\ + 0.907 \\ \hline \end{array}$$
    (a) 2.632    (b) 0.818    (c) 1.622    (d) 2.602    32. \_\_\_\_\_
33. 
$$\begin{array}{r} 8.432 \\ - 4.765 \\ \hline \end{array}$$
    (a) 4.333    (b) 13.197    (c) 4.777    (d) 3.667    33. \_\_\_\_\_
34.  $6\frac{1}{5} + 5\frac{4}{5}$     (a) 12    (b)  $11\frac{5}{5}$     (c)  $11\frac{5}{10}$     (d)  $11\frac{1}{2}$     34. \_\_\_\_\_
35.  $5\frac{1}{4} - 3\frac{3}{4}$     (a) 2    (b) 9    (c)  $1\frac{2}{4}$     (d)  $2\frac{2}{4}$     35. \_\_\_\_\_
36. 
$$\begin{array}{r} 694 \\ \times 598 \\ \hline \end{array}$$
    (a) 1292    (b) 15 268    (c) 304 912    (d) 415 012    36. \_\_\_\_\_
37.  $43 \overline{) 11\,400}$     (a) 490 200    (b) 2 R28    (c) 265    (d) 265 R5    37. \_\_\_\_\_
38. 
$$\begin{array}{r} 0.9 \\ \times 0.5 \\ \hline \end{array}$$
    (a) 4.5    (b) 1.4    (c) 0.45    (d) 0.14    38. \_\_\_\_\_
39.  $24 \overline{) 73.44}$     (a) 3 R44    (b) 3.6    (c) 306    (d) 3.06    39. \_\_\_\_\_
40.  $\frac{6}{7} \text{ --- } \frac{5}{6}$     (a) =    (b) <    (c) >    (d) +    40. \_\_\_\_\_
41. Which is the missing term from  $\frac{3}{8} = \frac{\blacksquare}{24}$ ?  
       (a) 16        (b) 12        (c) 9        (d) 6    41. \_\_\_\_\_
42. Which is the missing term from  $\frac{14}{21} = \frac{6}{\blacksquare}$ ?  
       (a) 126        (b) 112        (c) 25        (d) 9    42. \_\_\_\_\_
43. 9 mm = \_\_\_\_\_ cm  
       (a) 0.9        (b) 90        (c) 900        (d) 9000    43. \_\_\_\_\_

44. 2100 mL = \_\_\_\_\_ L

- (a) 2.100      (b) 21.00      (c) 210 000      (d) 2 100 000

44. \_\_\_\_\_

45. \_\_\_\_\_

46. \_\_\_\_\_

45. 4.56 kg = \_\_\_\_\_ g

- (a) 0.004 56    (b) 0.0456    (c) 456    (d) 4560

47. \_\_\_\_\_

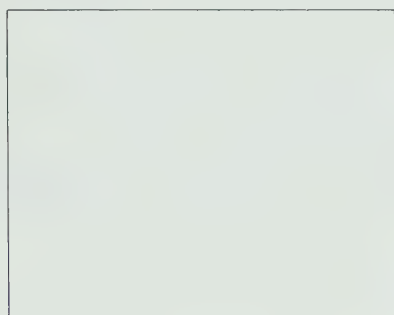
48. \_\_\_\_\_

49. \_\_\_\_\_

46. 239 cm = \_\_\_\_\_ m

- (a) 0.239      (b) 2.39      (c) 23 900      (d) 239 000

47. Use a centimetre ruler. Which is the perimeter of this rectangle?



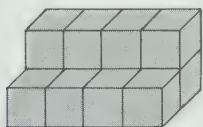
- (a) 9 cm      (b) 18 cm      (c) 20 cm      (d) 20 cm<sup>2</sup>

48. Which is the area of the rectangle in exercise 47?

- (a) 9 cm<sup>2</sup>      (b) 18 cm<sup>2</sup>      (c) 20 cm      (d) 20 cm<sup>2</sup>

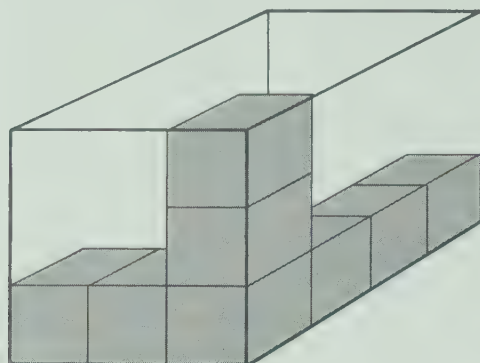
Each small cube in exercises 49 and 50 represents a cubic centimetre.

49. Which is the volume in cubic centimetres?



- (a) 8      (b) 12      (c) 15      (d) 18

50. Which is the volume of the rectangular prism in cubic centimetres?



- (a) 8      (b) 17      (c) 10      (d) 36

Which is the best estimate for each measurement?

51. the capacity of a one-serving milk carton

- (a) 2 L      (b) 1 L      (c) 250 mL      (d) 20 mL

52. the mass of a new-born baby

- (a) 35 kg      (b) 3.5 kg      (c) 35 g      (d) 3.5 g

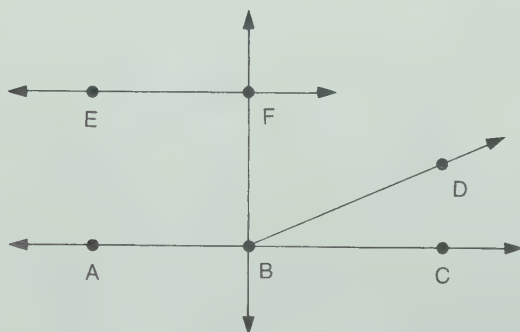
53. the mass of a full box of cereal

- (a) 3.5 kg      (b) 350 g      (c) 35 g      (d) 3.5 g

54. the capacity of 140 cm<sup>3</sup> of water

- (a) 140 L      (b) 1.4 L      (c) 140 mL      (d) 0.140 mL

Use this picture for exercises 55 to 60.



55. Which is a line parallel to EF?

- (a) BF      (b) AC      (c) BD      (d) ABD

56. Which is a line perpendicular to EF?

- (a) BF      (b) AC      (c) BD      (d) ABF

56. \_\_\_\_\_

57. Which is not a line?

- (a) BF      (b) AC      (c) BD      (d) EF

57. \_\_\_\_\_

58. \_\_\_\_\_

59. \_\_\_\_\_

60. \_\_\_\_\_

58. Which is an acute angle?

- (a)  $\angle EFB$       (b)  $\angle ABF$       (c)  $\angle ABD$       (d)  $\angle DBC$

61. \_\_\_\_\_

62. \_\_\_\_\_

63. \_\_\_\_\_

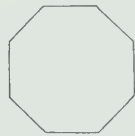
59. Which is an obtuse angle?

- (a)  $\angle EFB$       (b)  $\angle ABF$       (c)  $\angle ABD$       (d)  $\angle DBC$

60. Which is not a right angle?

- (a)  $\angle EFB$       (b)  $\angle ABF$       (c)  $\angle ABC$       (d)  $\angle FBC$

61. Which kind of polygon is this?



- (a) square      (b) pentagon      (c) hexagon      (d) octagon

62. Which kind of triangle is this?



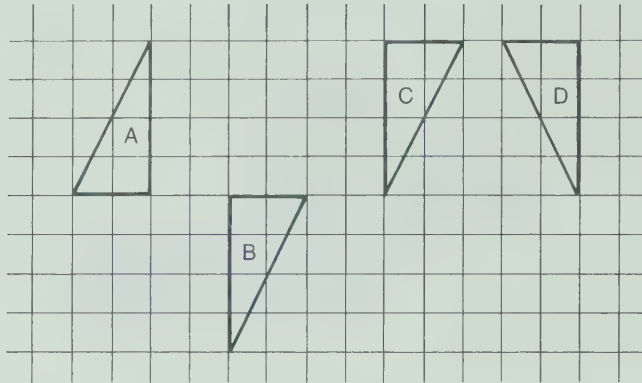
- (a) right-angled      (b) scalene      (c) equilateral      (d) isosceles

63. Which kind of quadrilateral is this?



- (a) square      (b) rectangle      (c) parallelogram      (d) rhombus

Use this picture for exercises 64 to 66.



64. \_\_\_\_\_  
 65. \_\_\_\_\_  
 66. \_\_\_\_\_  
 67. \_\_\_\_\_

64. Which figure is the slide image of B?

- (a) A      (b) C      (c) D      (d) none

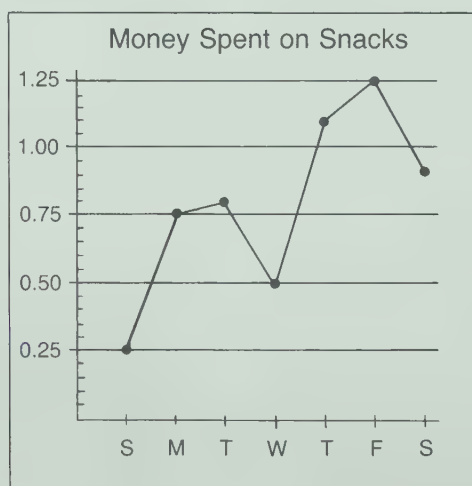
65. Which figure is the flip image of D?

- (a) A      (b) B      (c) C      (d) none

66. Which figure is the turn image of B?

- (a) A      (b) C      (c) D      (d) none

Use this line graph for exercises 67 to 69.



67. On which day was the most money spent on snacks?

- (a) Sunday      (b) Tuesday      (c) Thursday      (d) Friday

68. How much more money was spent on Friday than on Monday?  
(a) 2      (b) 4      (c) \$0.50      (d) \$1.25
69. How much money was spent in all on Friday, Saturday, and Sunday?  
(a) \$2.50      (b) \$2.40      (c)  $8\frac{1}{2}$       (d)  $9\frac{1}{2}$
70. Mr. Jones has 84 chickens. On the average, each chicken lays 3 eggs a day. In a month that has 31 d, how many eggs does Mr. Jones collect?  
(a) 28      (b) 252      (c) 1008      (d) 7812
71. An egg carton holds 12 eggs. How many cartons are needed for 8100 eggs?  
(a) 8112      (b) 97 200      (c) 675      (d) 6 R11
72. Lucinda bought a camera for \$49.95 and two rolls of film for \$1.75 each. How much did she spend?  
(a) \$51.70      (b) \$53.45      (c) \$103.40      (d) \$3.50
73. Debbi earns \$2.75 an hour. She worked 18 h this week. How much did she earn?  
(a) \$24.75      (b) \$49.50      (c) \$20.75      (d) \$2.57
74. In 17 d George earned \$129.03. How much pay did he average each day?  
(a) \$2193.51      (b) \$146.03      (c) \$7.59      (d) \$759
75. The Rizzos are on a trip of 1876 km. It will take them 3 d. The first two days they drove 1387 km. How far must they drive the third day?  
(a) 489 km      (b) 625 R1 km      (c) 3263 km      (d) 1087 R2 km

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